HCD-BX6AV/DX6AV

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
HCD-BX6AV
E Model
Australian Model
HCD-DX6AV

Photo: HCD-BX6AV

HCD-BX6AV/DX6AV is the Amplifier, CD player, Tape player and Tuner section in MHC-BX6AV/DX6AV.

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CD Section	Model Name Using Similar Mechanism	HCD-BX2/DX2
	CD Mechanism Type	EXL-M7
	Optical Pick-up Name	OPTIMA-7
Tape deck Section	Model Name Using Similar Mechanism	HCD-RXD6AV
	Tape Transport Mechanism Type	CWL-44-RR

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:
(US model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 6 ohm loads both channels driven, from 120-10,000 Hz; rates 10 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

US model
Center Speaker:
Continuous RMS power output (reference)
40 watts
(6 ohms at 1 kHz, 10% THD)
Rear Speaker:
Continuous RMS power output (reference)
40 + 40 watts
(6 ohms at 1 kHz, 10% THD)

Canadian model
Front Speaker:
Continuous RMS power output (reference)
60 + 60 watts
(6 ohms at 1 kHz, 10% THD)
Total harmonics distortion
Less than 0.07%
(6 ohms at 1 kHz, 30 W)
Center Speaker:
Continuous RMS power output (reference)
40 watts
(6 ohms at 1 kHz, 10% THD)
Rear Speaker:
Continuous RMS power output (reference)
40 + 40 watts
(6 ohms at 1 kHz, 10% THD)

AEP, UK models
Front Speaker:
DIN power output (rated) 40 + 40 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
50 + 50 watts
(6 ohms at 1 kHz, 10% THD)
Music power output (reference)
100 + 100 watts
(6 ohms at 1 kHz, 10% THD)
Center Speaker:
DIN power output (rated) 25 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
35 watts
(6 ohms at 1 kHz, 10% THD)
Music power output (reference)
70 watts
(6 ohms at 1 kHz, 10% THD)
Rear Speaker:
DIN power output (rated) 25 + 25 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
35 + 35 watts
(6 ohms at 1 kHz, 10% THD)
Music power output (reference)
70 + 70 watts
(6 ohms at 1 kHz, 10% THD)

Other models:
The following measured at AC 120/240 V, 50/60 Hz
Front Speaker:
DIN power output (rated) 45 + 45 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
60 + 60 watts
(6 ohms at 1 kHz, 10% THD)
Center Speaker:
DIN power output (rated) 30 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
40 watts
(8 ohms at 1 kHz, 10% THD)
Rear Speaker:
DIN power output (rated) 30 + 30 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
40 + 40 watts
(6 ohms at 1 kHz, 10% THD)

Inputs	
MD/VIDEO IN: (phono jacks)	voltage 250/450 mV, impedance 47 kilohms
DVD INPUT:	
FRONT IN: (phono jacks)	voltage 450 mV, impedance 47 kilohms
REAR IN: (phono jacks)	voltage 450 mV, impedance 47 kilohms
CENTER IN: (phono jacks)	voltage 450 mV, impedance 47 kilohms
WOOFER IN: (phono jacks)	voltage 450 mV, impedance 47 kilohms
Outputs	
PHONES: (stereo mini jack)	accepts headphones of 8 ohms or more
FRONT SPEAKER:	accepts impedance of 6 to 16 ohms
REAR SPEAKER:	accepts impedance of 6 to 16 ohms
CENTER SPEAKER:	accepts impedance of 6 to 16 ohms
WOOFER:	Voltage 1 V, impedance 1 kilohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ=780nm) Emission duration: continuous
Laser output	Max. 44.6 μW* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

– Continued on next page –

COMPACT DISC DECK RECEIVER

SONY®

Wavelength	780 – 790 nm
Frequency response	20 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)

Wavelength	660 nm
Output Level	–18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette

Tuner section

FM stereo, FM / AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
US, Canadian models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
AEP, UK and Middle Eastern models:	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
US, Cnadian models:	120 V AC, 60 Hz
AEP, UK models:	230 V AC, 50 / 60 Hz
Australian model:	220 – 240 V AC, 50 / 60 Hz
Mexican model:	120 V AC, 60 Hz
Other models:	110 – 120 V or 220 – 240 V AC, 50 / 60 Hz Adjustable with voltage selector
Power consumption	
US model:	160 watts
Canadian model:	180 watts
AEP, UK models:	160 watts
Other models:	160 watts
Dimensions (w / h / d)	Approx. 280 x 325 x 390 mm
Mass	
US model:	Approx. 9.2 kg
Canadian model:	Approx. 9.2 kg
AEP, UK models:	Approx. 9.2 kg
Other model:	Approx. 9.1 kg
Supplied accessories:	AM loop antenna (1) FM lead antenna (1) Remote Commander (1) Speaker cords (2) Center speaker pads (4)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

SECTION 1
SERVICING NOTES

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

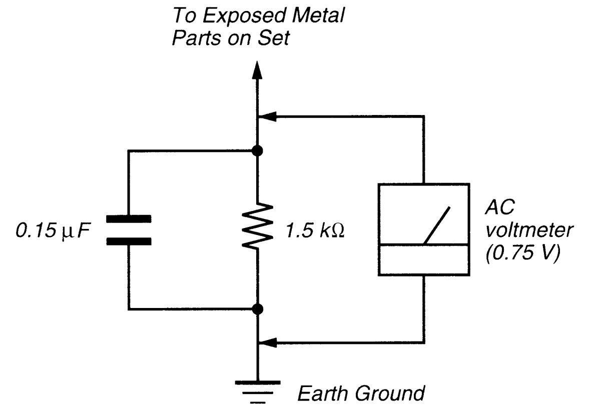
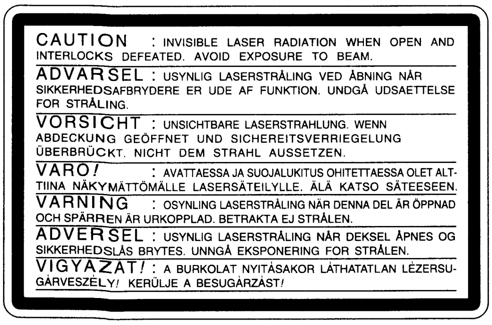


Fig. A. Using an AC voltmeter to check AC leakage.

The following caution label is located inside the unit.



CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.

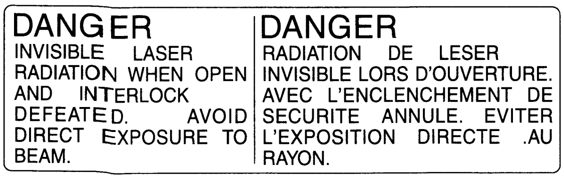
VORSICHT : UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.

VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.

VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!



DANGER
INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.

DANGER
RADIATION DE LESER INVISIBLE LORS D'OUVERTURE. AVEC L'ENCLENCHEMENT DE SECURITE ANNULE. EVITER L'EXPOSITION DIRECTE .AU RAYON.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

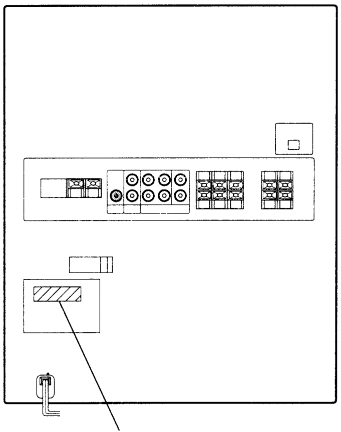
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

• MODEL IDENTIFICATION

– Rear Panel –

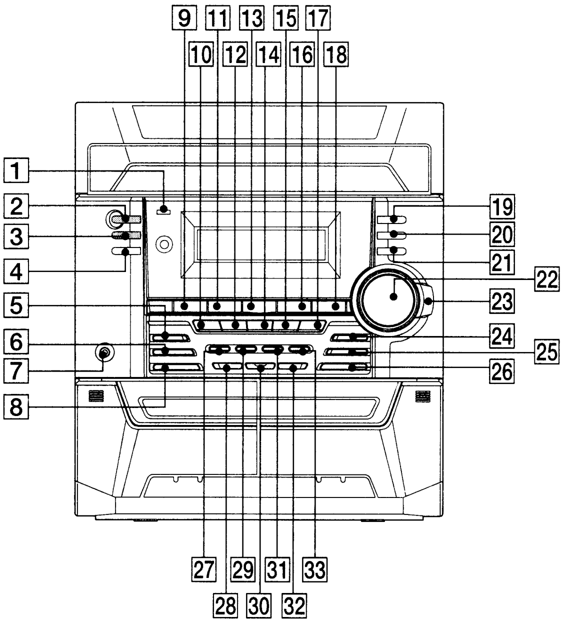


Model	Power Voltage Indication
US model	AC: 120 V ∿ 60 Hz 160 W
Canadian model	AC: 120 V ∿ 60 Hz 180 W
AEP, UK models	AC: 230 V ∿ 50/60 Hz 160 W
Australian model	AC: 220 – 240 V ∿ 50/60 Hz 160 W
Mexican model	AC: 120 V ∿ 50/60 Hz 160 W
Other models	AC: 110 – 120 V/220 – 240 V ∿ 50/60 Hz 160 W

SECTION 2
GENERAL

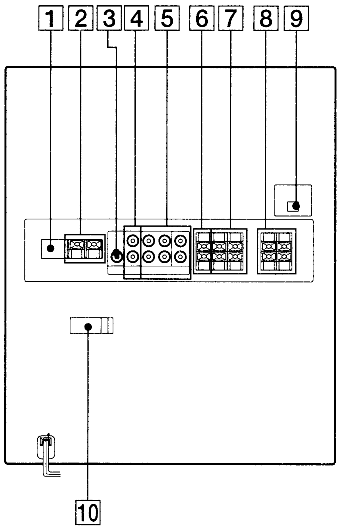
• LOCATION OF CONTROLS

– Front View –



1	TIMER indicator
2	I/⏻ button and indicator
3	DISPLAY button
4	SPECTRUM button
5	GROOVE button and indicator
6	FILE SELECT button
7	PHONES jack
8	ENTER button
9	–, ⏮ button
10	DISC SKIP EX-CHANGE button
11	■ button
12	DISC 1 button
13	◁ ▷ button and indicator
14	DISC 2 button
15	DISC 3 button
16	❚❚ button
17	⏏ OPEN/CLOSE button
18	⏭, + button
19	PLAY MODE, DIRECTION button (US, Canadian, E, Australian models) PLAY MODE, PTY/DIRECTION button (AEP, UK models)
20	REPEAT, STEREO/MONO button
21	EDIT, TUNER MEMORY button
22	VOLUME knob
23	◁◁ ▷▷ button
24	REC button and indicator
25	REC PAUSE button and indicator
26	CD SYNC button
27	MD (VIDEO) button and indicator
28	DOLBY PRO LOGIC button and indicator
29	TAPE A/B button and indicator
30	DVD 5.1CH button and indicator
31	CD button and indicator
32	DSP button and indicator
33	TUNER/BAND button and indicator

– Rear View –



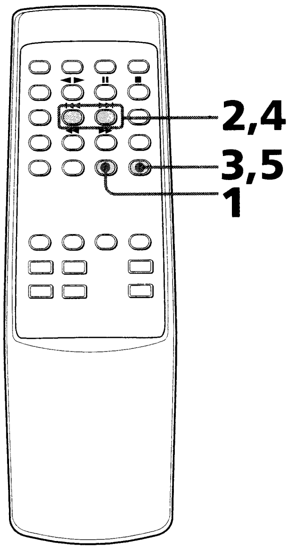
1	FM ANTENNA jack or terminals
2	AM ANTENNA terminals
3	WOOFER OUT jack
4	MD/VIDEO IN jacks
5	DVD INPUT jacks
6	CENTER SPEAKER terminals
7	REAR SPEAKER terminals
8	FRONT SPEAKER terminals
9	CD DIGITAL OUT (OPTICAL) connector
10	VOLTAGE SELECTOR switch (E model)

Step 3: Setting the time

You must set the time before using the timer functions.

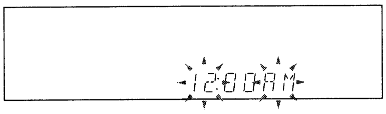
The clock uses a 24-hour system on the European model, and a 12-hour system on other models.

The 12-hour system is used for illustration purposes.

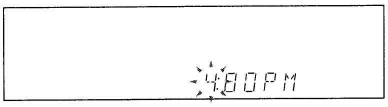


1 Press CLOCK/TIMER SET.

The hour indication flashes.

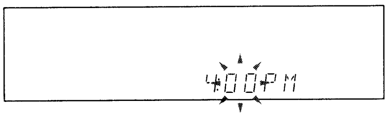


2 Press ⏮ or ⏭ repeatedly to set the hour.



3 Press ENTER.

The minute indication flashes.



4 Press ⏮ or ⏭ repeatedly to set the minute.

5 Press ENTER.

The clock starts working.

Tip

If you make a mistake, start over from step 1.

To change the time

The previous explanation shows how to set the time while the power is off. To change the time while the power is on, do the following:

1. Press CLOCK/TIMER SET.
2. Press ⏮ or ⏭ repeatedly to select SET CLOCK.
3. Press ENTER.
4. Perform steps 2 through 5 above.

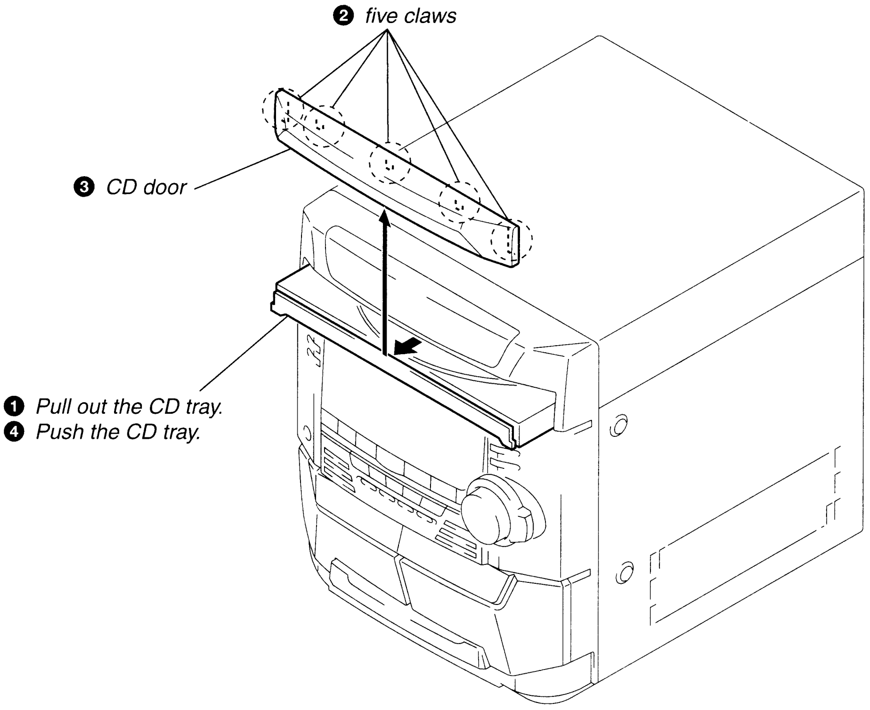
Notes

- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- For MHC-BX6AV, you cannot set the time in the Power Saving Mode (see page 12).

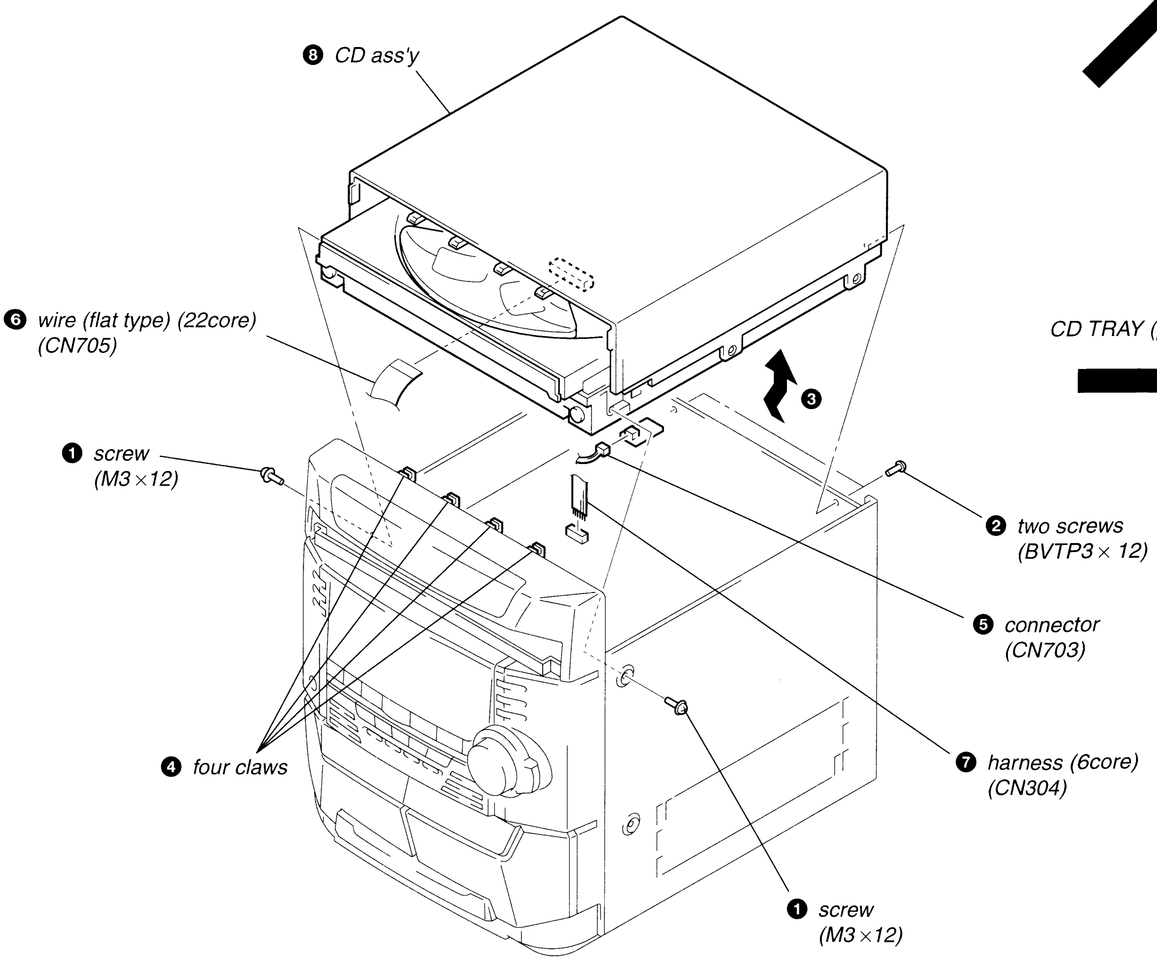
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

CD DOOR

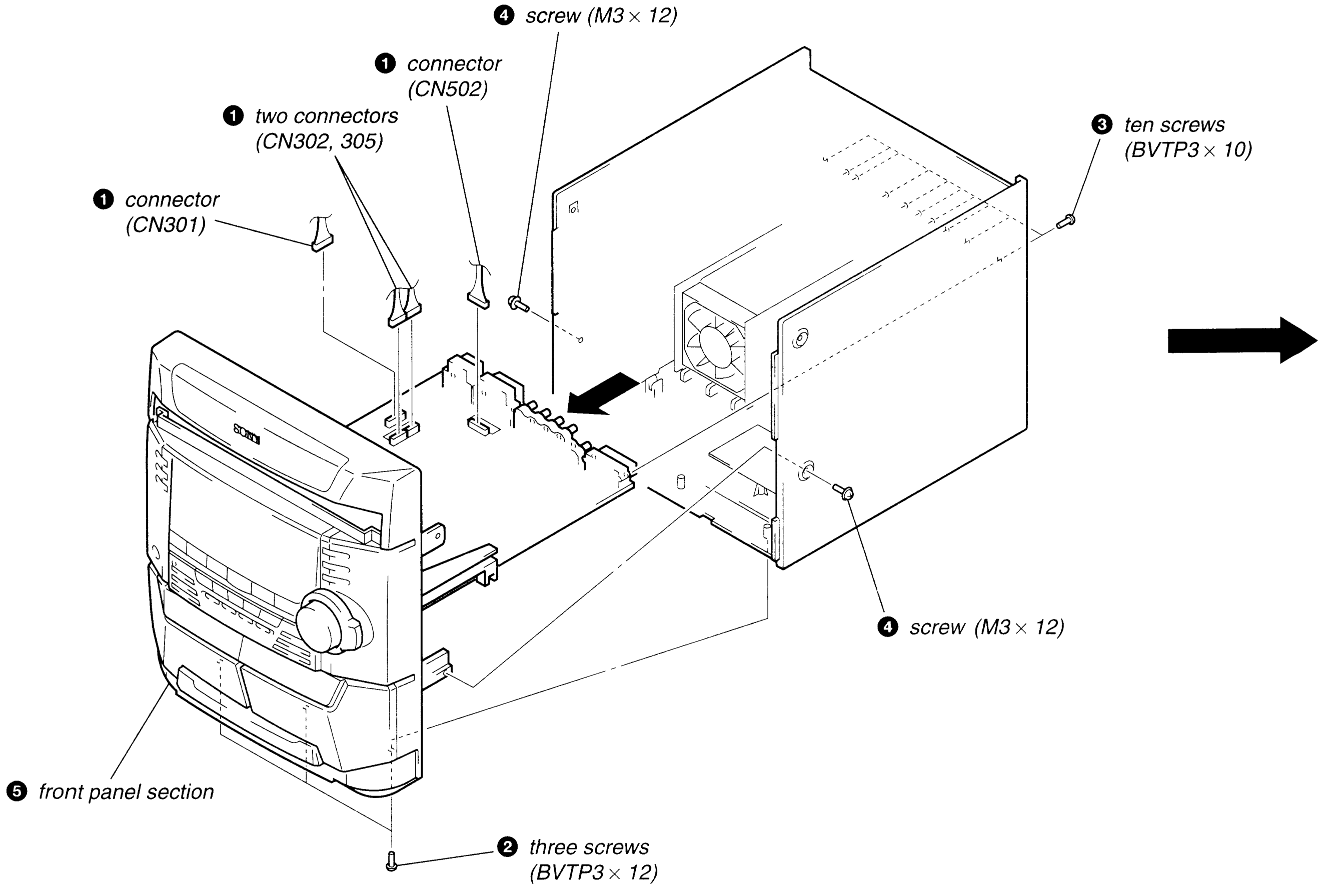

❷ five claws
❸ CD door
❶ Pull out the CD tray.
❹ Push the CD tray.

CD ASS'Y

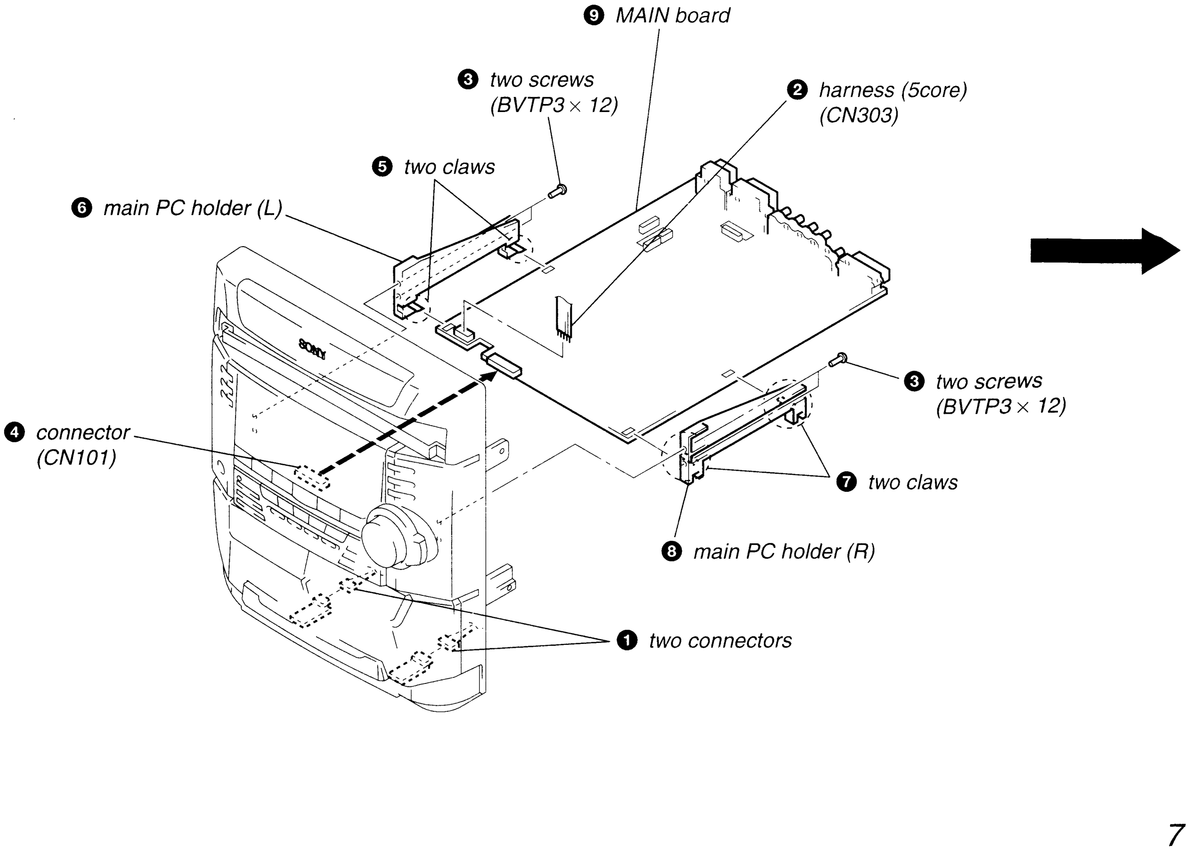

❽ CD ass'y
❻ wire (flat type) (22core)
(CN705)
❸
❶ screw
(M3 × 12)
❷ two screws
(BVTP3 × 12)
❺ connector
(CN703)
❹ four claws
❼ harness (6core)
(CN304)
❶ screw
(M3 × 12)

CD TRAY (page 9)

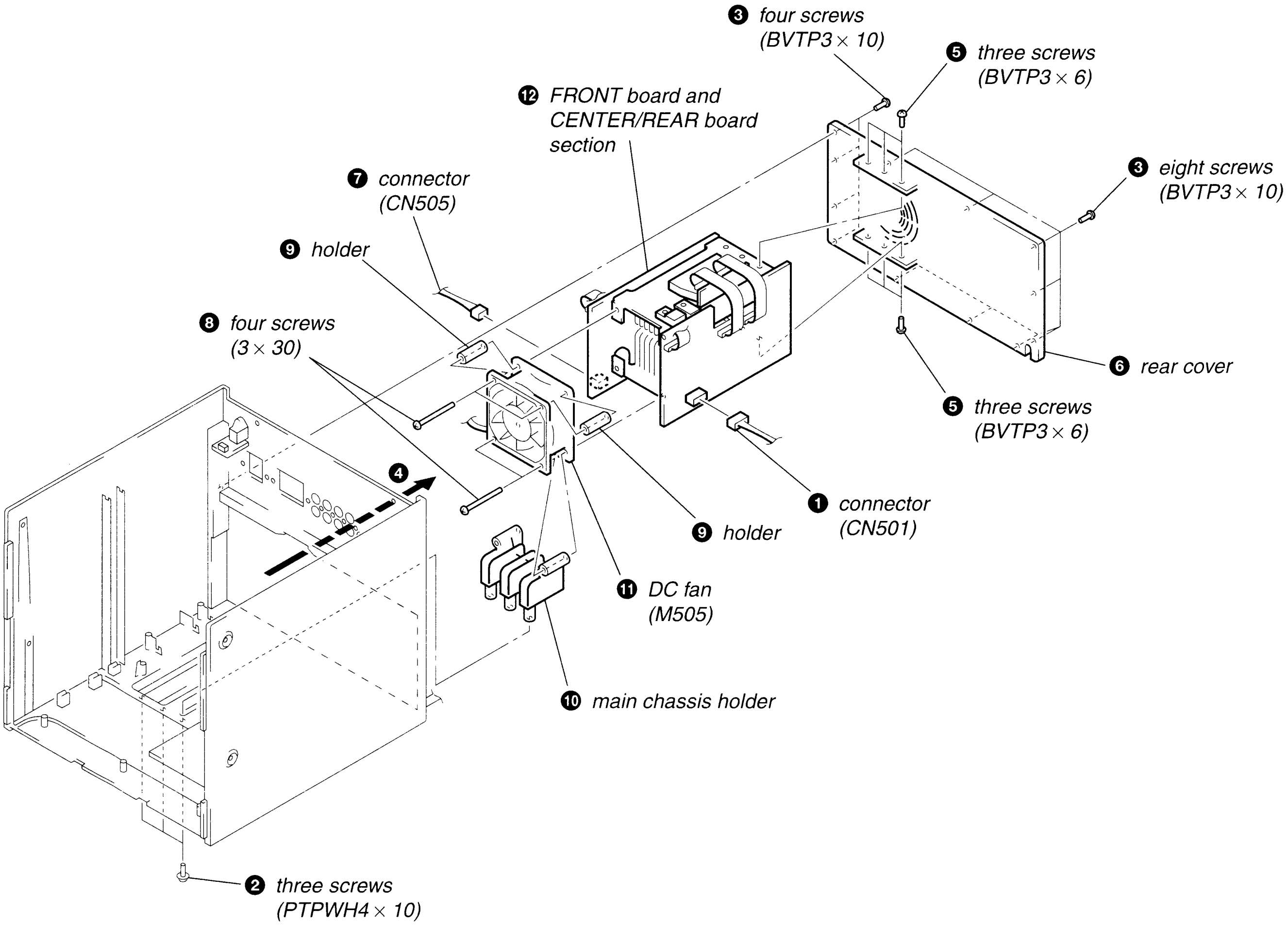
FRONT PANEL SECTION


❹ screw (M3 × 12)
❶ connector (CN502)
❶ two connectors (CN302, 305)
❶ connector (CN301)
❸ ten screws (BVTP3 × 10)
❹ screw (M3 × 12)
❺ front panel section
❷ three screws (BVTP3 × 12)

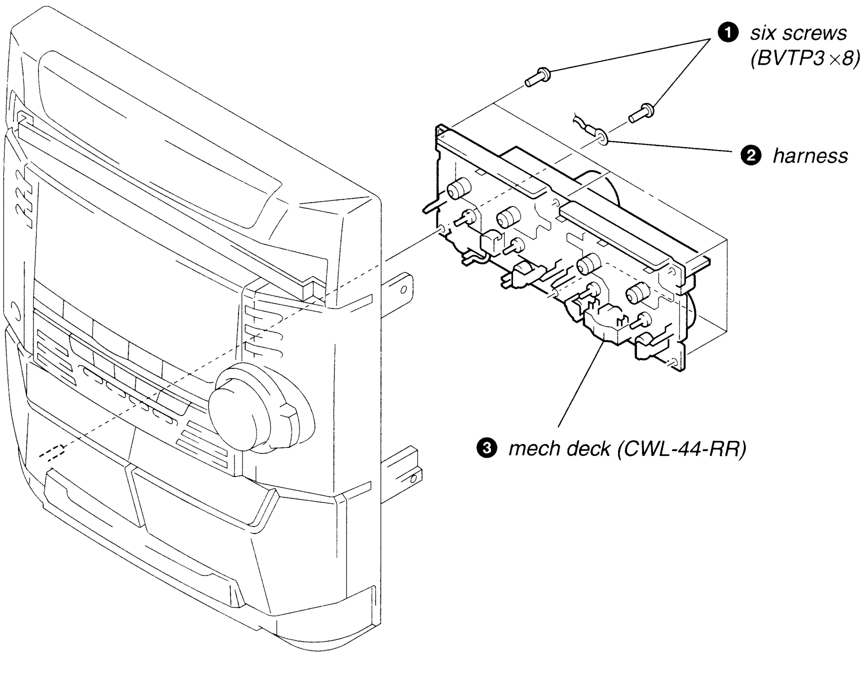
MAIN BOARD


❾ MAIN board
❸ two screws (BVTP3 × 12)
❷ harness (5core) (CN303)
❺ two claws
❻ main PC holder (L)
❸ two screws (BVTP3 × 12)
❹ connector (CN101)
❼ two claws
❽ main PC holder (R)
❶ two connectors

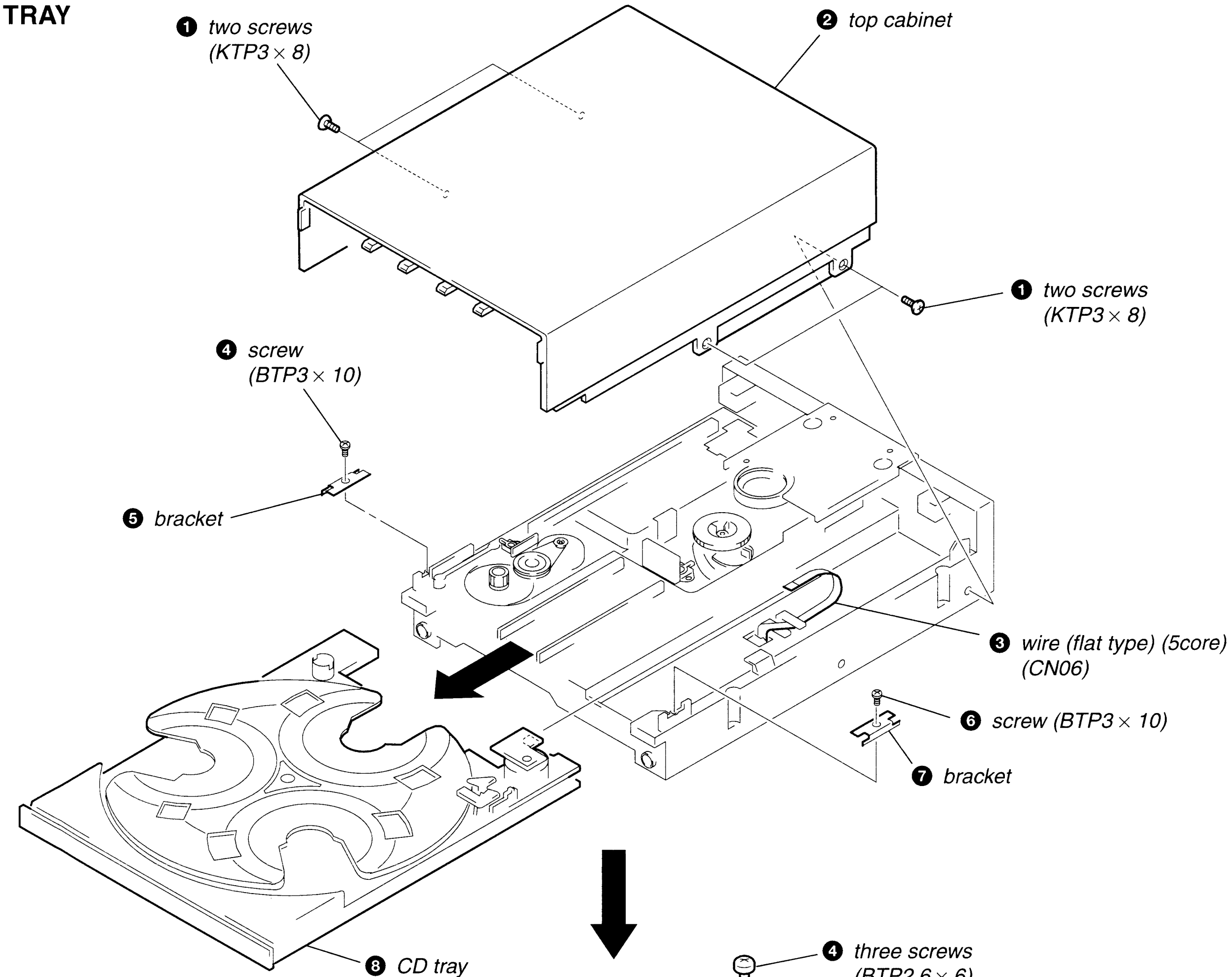
FRONT BOARD AND CENTER/REAR BOARD SECTION, DC FAN (M505)


❸ four screws (BVTP3 × 10)
❺ three screws (BVTP3 × 6)
⓬ FRONT board and CENTER/REAR board section
❸ eight screws (BVTP3 × 10)
❼ connector (CN505)
❾ holder
❽ four screws (3 × 30)
❻ rear cover
❺ three screws (BVTP3 × 6)
❹
❶ connector (CN501)
❾ holder
⓫ DC fan (M505)
❿ main chassis holder
❷ three screws (PTPWH4 × 10)

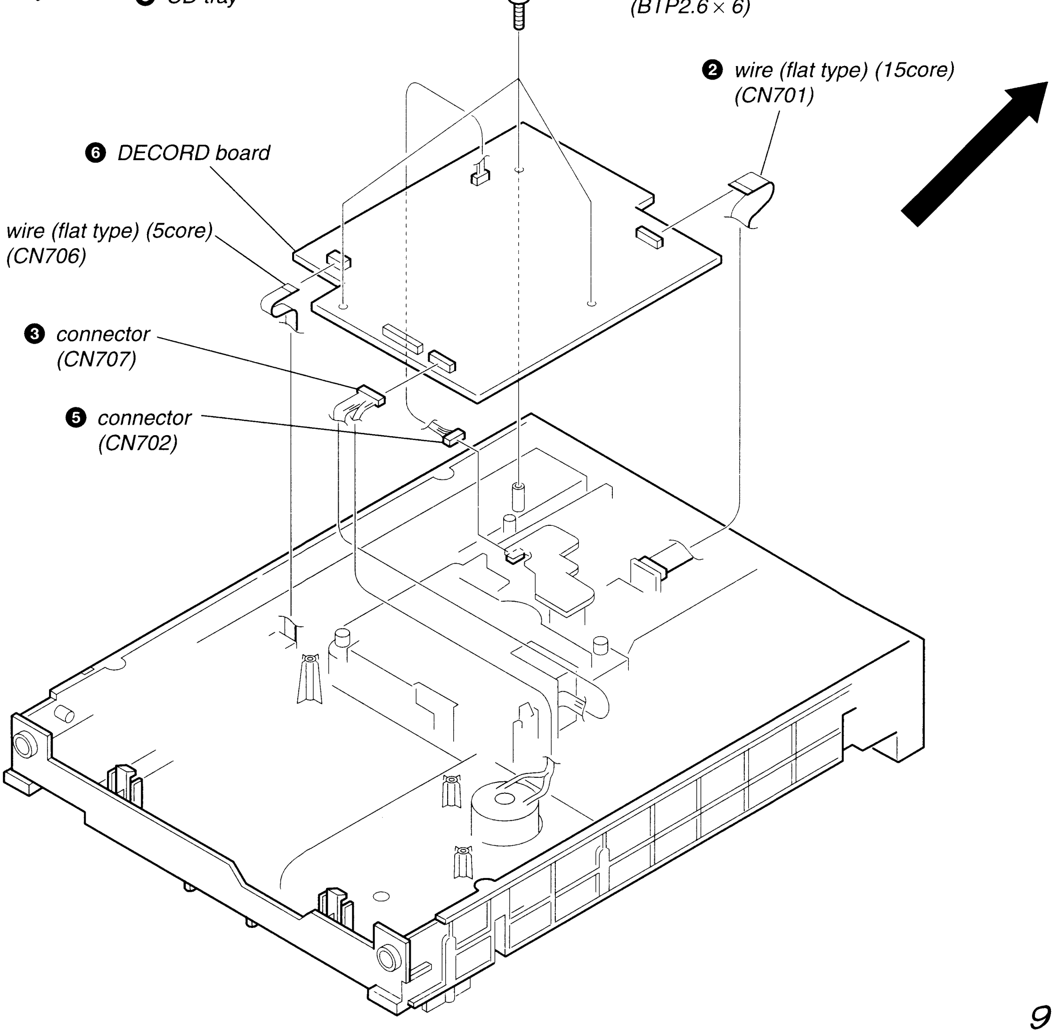
MECH DECK (CWL-44-RR)


❶ six screws (BVTP3 ×8)
❷ harness
❸ mech deck (CWL-44-RR)

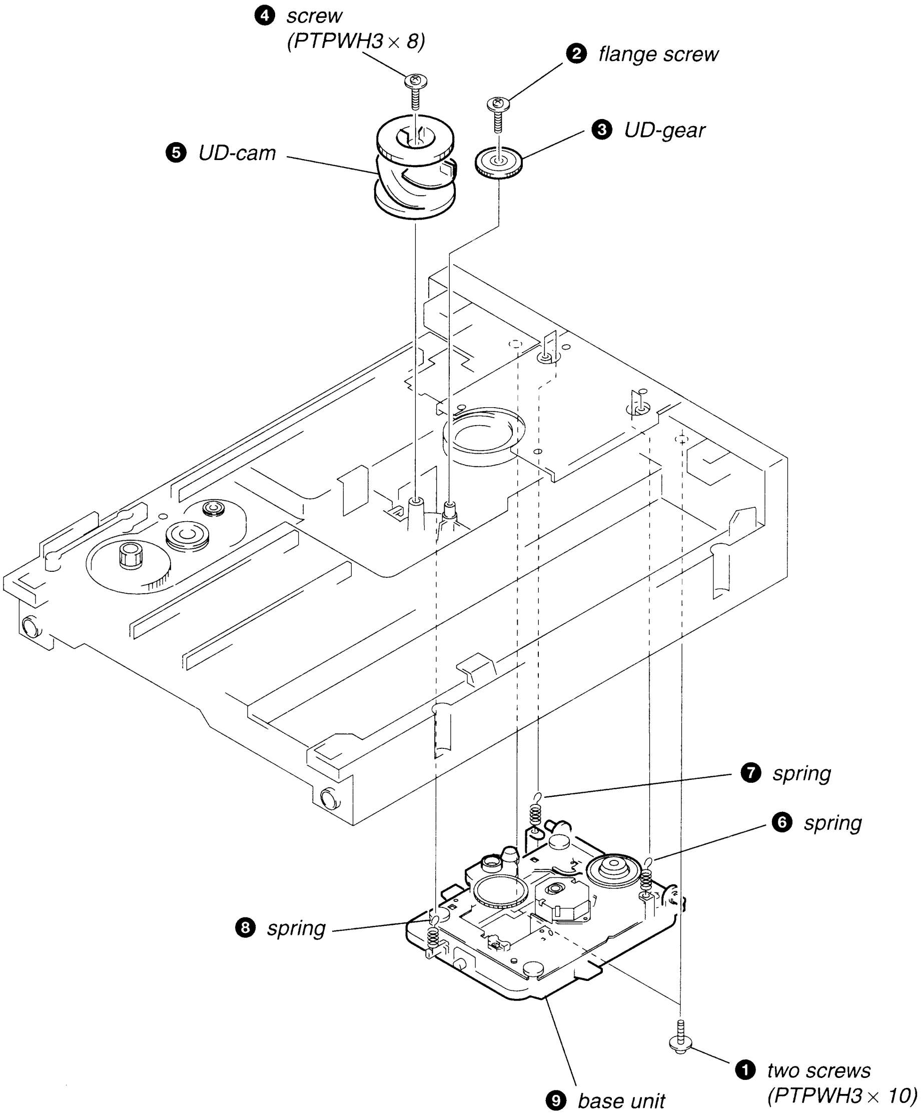
CD TRAY


❶ two screws (KTP3 × 8)
❷ top cabinet
❶ two screws (KTP3 × 8)
❹ screw (BTP3 × 10)
❺ bracket
❸ wire (flat type) (5core) (CN06)
❻ screw (BTP3 × 10)
❼ bracket
❽ CD tray

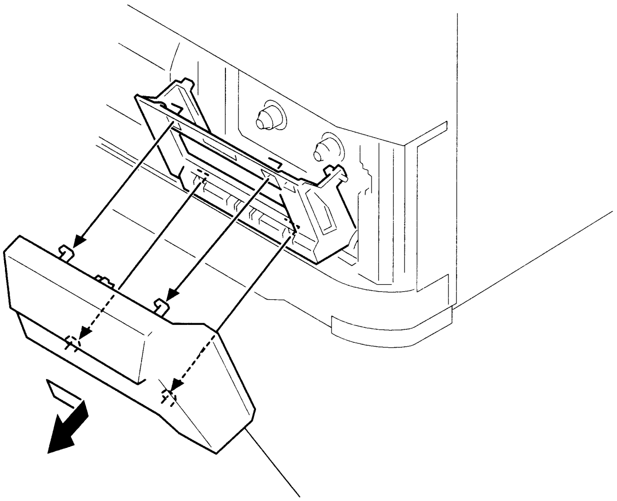
DECORD BOARD


❹ three screws (BTP2.6 × 6)
❷ wire (flat type) (15core) (CN701)
❻ DECORD board
❶ wire (flat type) (5core) (CN706)
❸ connector (CN707)
❺ connector (CN702)

BASE UNIT


❹ screw
(PTPWH3 × 8)
❷ flange screw
❸ UD-gear
❺ UD-cam
❼ spring
❻ spring
❽ spring
❶ two screws
(PTPWH3 × 10)
❾ base unit

CASSETTE LID


cassette door
(Note: Four claws are used.)

SECTION 4
DIAGRAMS

4-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:
- ——— : parts extracted from the conductor side.
- ░░░ : Pattern from the side which enables seeing.

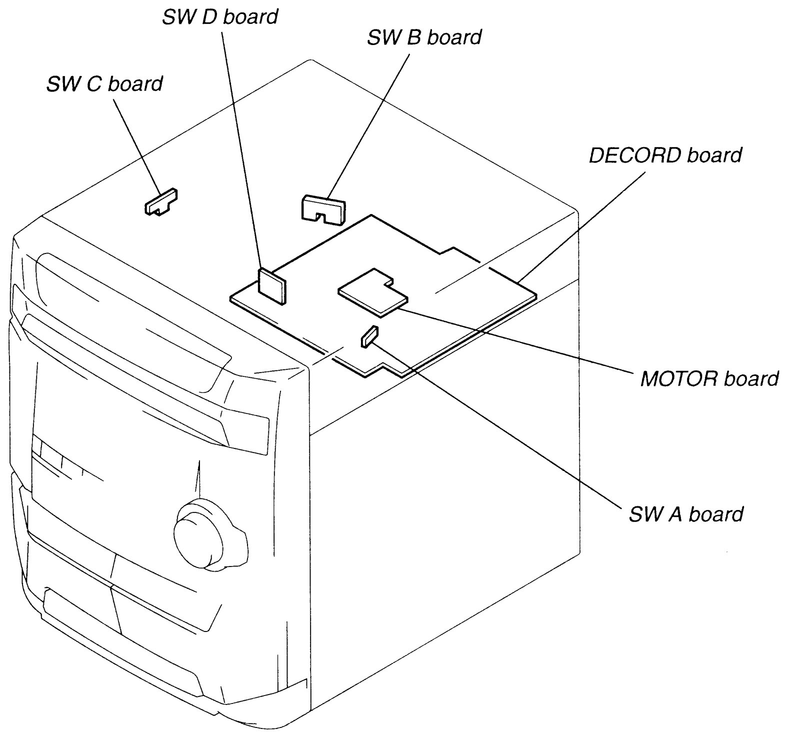
(The other layers' patterns are not indicated.)

Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. U: μF, pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- If a numeric value of capacitor is a decimal function, the preceding zero may be omitted. (For example, .1 expresses 0.1)
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ⊟ : nonflammable resistor.
- ▭ : panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- B− : B– Line.
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⊳ : TAPE PLAY (DECK A)
  - ▷ : TAPE PLAY (DECK B)
  - ▷» : TAPE REC
  - ⇛ : CD PLAY (ANALOG OUT)
  - ⇛» : CD PLAY (DIGITAL OUT)
- Abbreviation
  CND : Canadian model

- **Circuit Boards Location**


SW D board
SW B board
SW C board
DECORD board
MOTOR board
SW A board

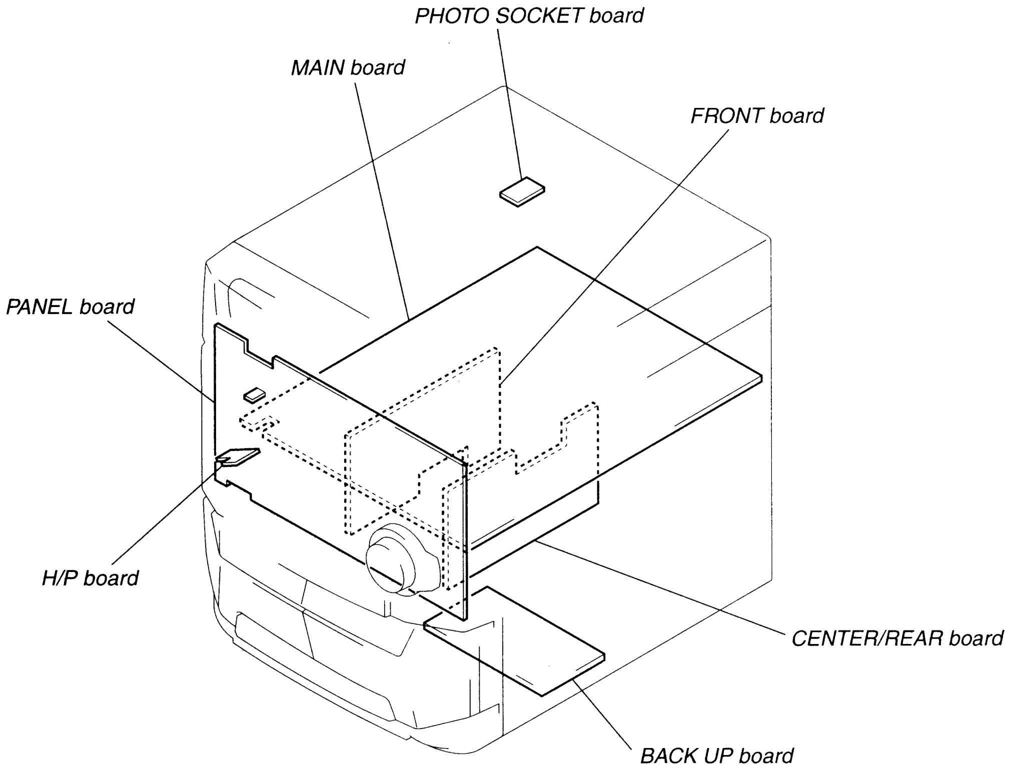
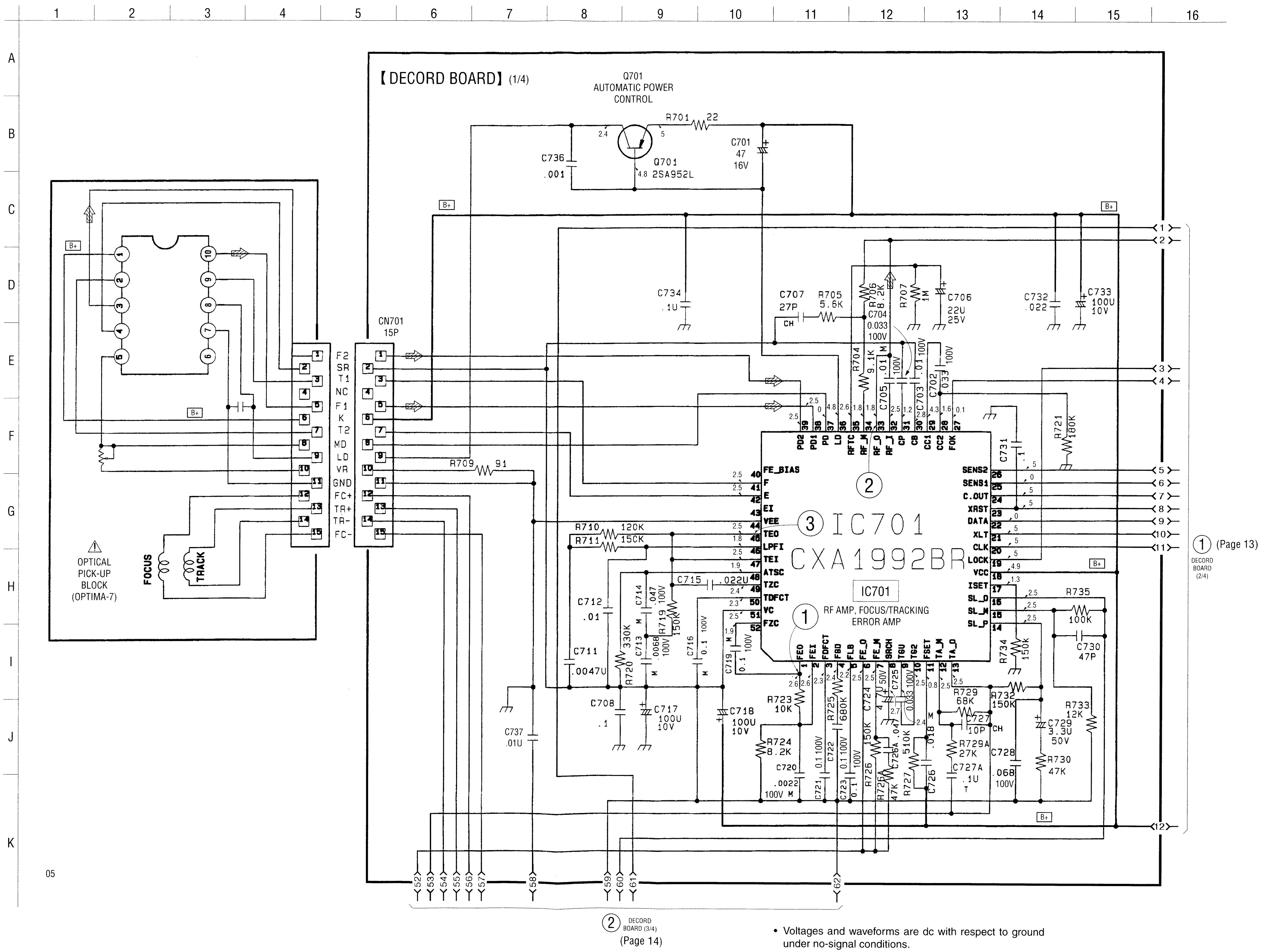


PHOTO SOCKET board
MAIN board
FRONT board
PANEL board
H/P board
CENTER/REAR board
BACK UP board

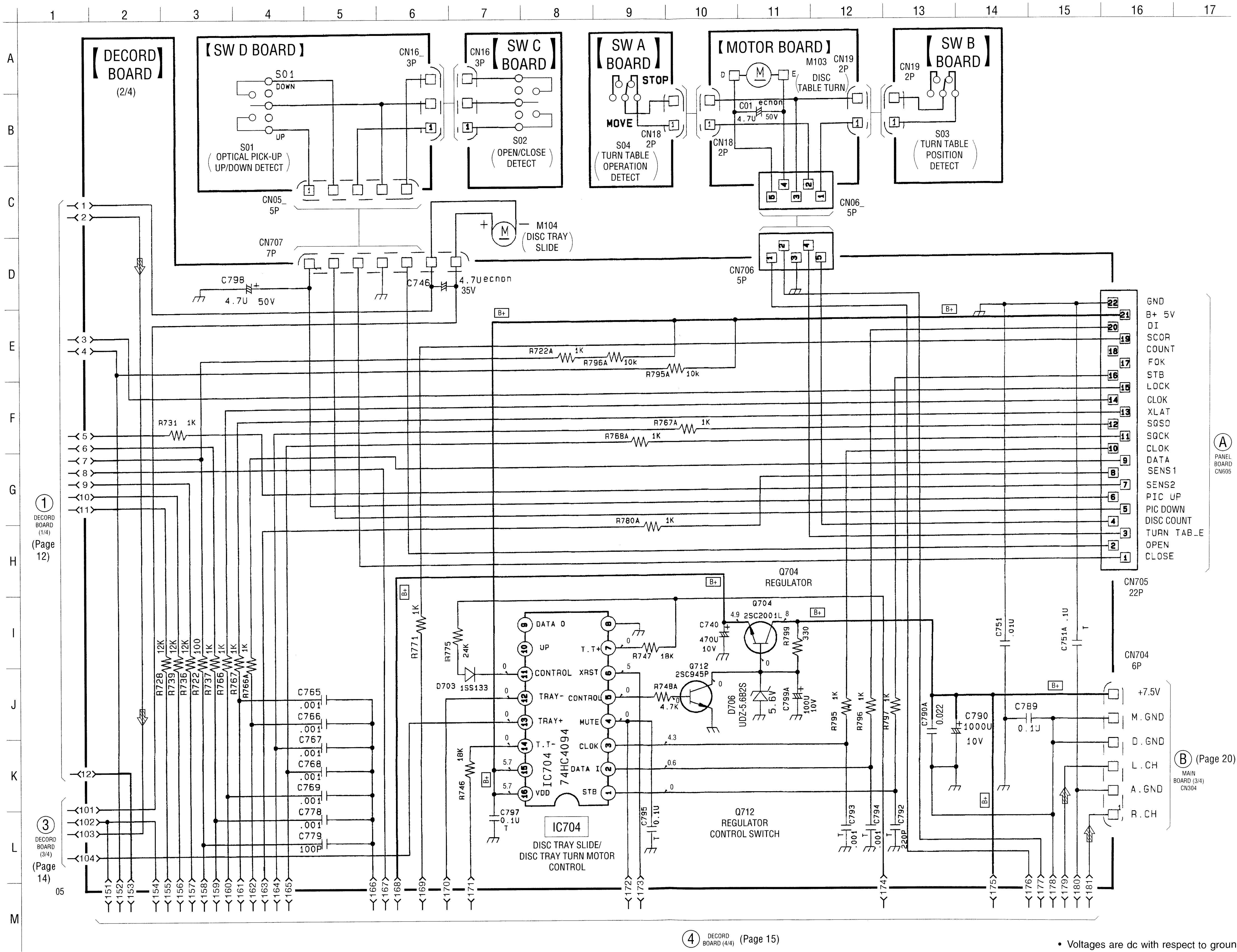
4-2. SCHEMATIC DIAGRAM – CD Section (1/4) – • See page 28 for Waveforms. • See page 29 for IC Block Diagram.


【DECORD BOARD】 (1/4)
Q701
AUTOMATIC POWER CONTROL
Q701 2SA952L
R701 22
C701 47 16V
C736 .001
B+
CN701 15P
F2
SR
T1
NC
F1
K
T2
MD
LD
VR
GND
FC+
TR+
TR-
FC-
R709 91
OPTICAL PICK-UP BLOCK (OPTIMA-7)
FOCUS
TRACK
C734 .1U
C707 27P
R705 5.6K
R706 8.2K
C704 0.033 100V
R707 1M
C706 22U 25V
C732 .022
C733 100U 10V
R704 9.1K
C705 .01 100V
C703 .01 100V
C702 .033 100V
R721 180K
C731 .1
IC701 CXA1992BR
RF AMP, FOCUS/TRACKING ERROR AMP
PD2
PD1
PD
LD
RFTC
RF_M
RF_O
RF_I
CP
CB
CC1
CC2
FOK
FE_BIAS
F
E
EI
VEE
TEO
LPFI
TEI
ATSC
TZC
TDFCT
VC
FZC
SENS2
SENS1
C.OUT
XRST
DATA
XLT
CLK
LOCK
VCC
ISET
SL_O
SL_M
SL_P
FEO
FEI
FDFCT
FGD
FLB
FE_O
FE_M
SRCH
TGU
TG2
FSET
TA_M
TA_O
R710 120K
R711 150K
C715 .022U
C712 .01
C714 .047
R719 150K
C713 .0068 100V
R720 330K
C716 0.1 100V
C719 0.1 100V
C711 .0047U
C708 .1
C717 100U 10V
C718 100U 10V
C737 .01U
R723 10K
R724 8.2K
C720 .0022 100V
C721 0.1 100V
C722
C723 0.1 100V
R725 680K
C724 .4U 50V
C725 0.033 100V
R726 150K
R726A 47K
C726A .04
R727 510K
C726 .018
R729 68K
C727 10P
R729A 27K
C727A .1U
R732 150K
C728 .068 100V
R734 150K
R735 100K
C730 47P
R733 12K
C729 3.3U 50V
R730 47K
1 (Page 13) DECORD BOARD (2/4)
2 DECORD BOARD (3/4) (Page 14)
05

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD PLAY

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

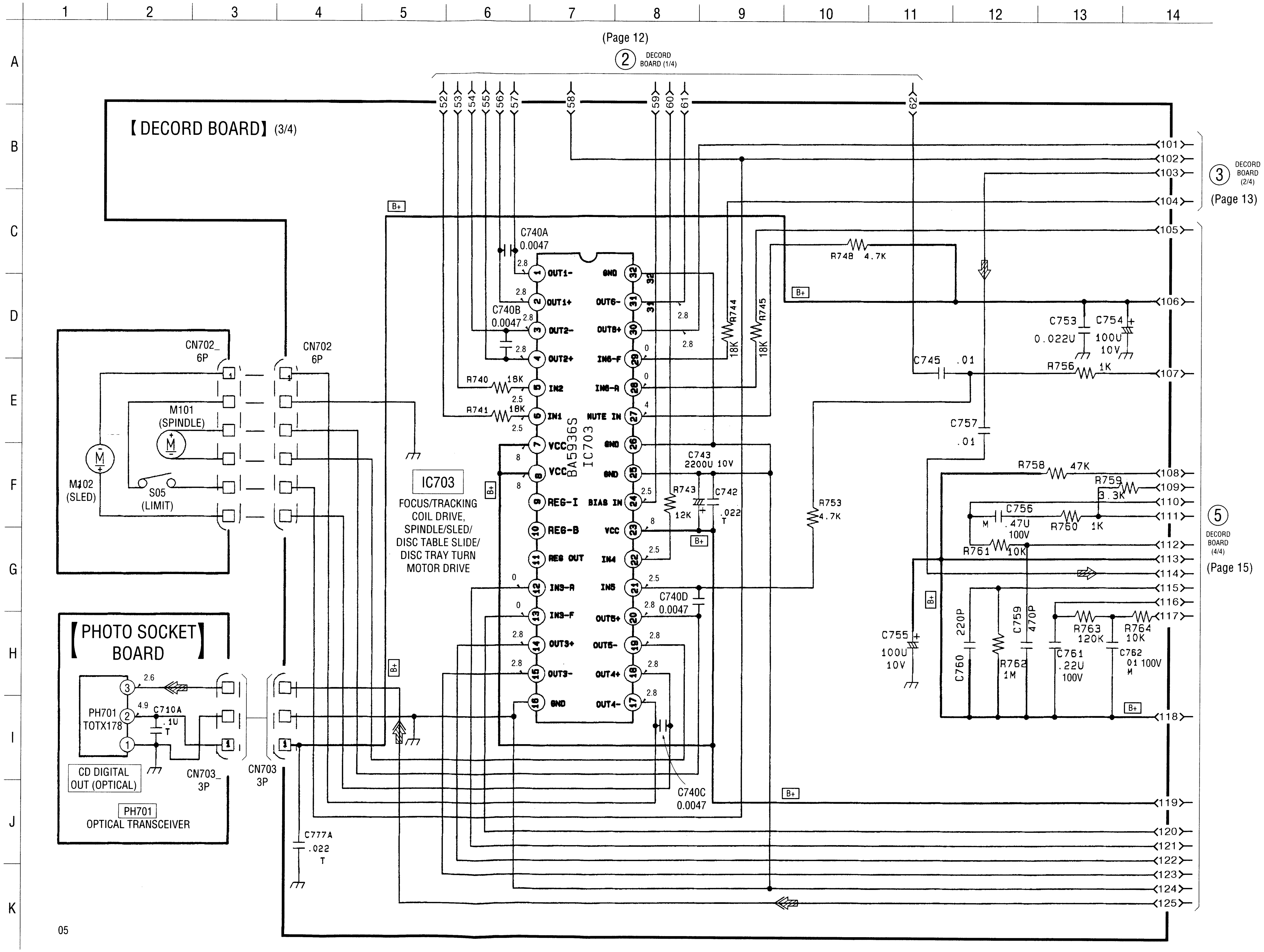
4-3. SCHEMATIC DIAGRAM – CD Section (2/4) –


DECORD BOARD (2/4)
SW D BOARD
S01 DOWN UP
S01 (OPTICAL PICK-UP UP/DOWN DETECT)
CN16 3P
CN05 5P
SW C BOARD
CN16 3P
S02 (OPEN/CLOSE DETECT)
SW A BOARD
STOP
MOVE
CN18 2P
S04 (TURN TABLE OPERATION DETECT)
MOTOR BOARD
M103 (DISC TABLE TURN)
CN19 2P
C01 4.7U 50V
CN18 2P
CN06 5P
SW B BOARD
CN19 2P
S03 (TURN TABLE POSITION DETECT)
M104 (DISC TRAY SLIDE)
CN707 7P
C798 4.7U 50V
C746 4.7U 35V
CN706 5P
R722A 1K
R796A 10k
R795A 10k
R731 1K
R767A 1K
R768A 1K
R780A 1K
GND
B+ 5V
DI
SCOR
COUNT
FOK
STB
LOCK
CLOK
XLAT
SQSO
SQCK
CLOK
DATA
SENS1
SENS2
PIC UP
PIC DOWN
DISC COUNT
TURN TABLE
OPEN
CLOSE
CN705 22P
Ⓐ (Page 23) PANEL BOARD CN605
① DECORD BOARD (1/4) (Page 12)
③ DECORD BOARD (3/4) (Page 14)
Q704 REGULATOR
Q704 2SC2001L
C740 470U 10V
R799 330
R747 18K
Q712 2SC945P
R748A 4.7K
D706 UDZ-5.6B2S 5.6V
C799A 100U 10V
R771 1K
R775 24K
D703 1SS133
R746 18K
C797 0.1U
C795 0.1U
R728 12K
R739 12K
R736 12K
R722 100
R737 1K
R766 1K
R767 1K
R766A 1K
C765 .001
C766 .001
C767 .001
C768 .001
C769 .001
C778 .001
C779 100P
IC704 74HC4094
DATA O
UP
CONTROL
TRAY- CONTROL
TRAY+
T.T-
DATA I
VDD
T.T+
XRST
MUTE
CLOK
STB
IC704 DISC TRAY SLIDE/ DISC TRAY TURN MOTOR CONTROL
Q712 REGULATOR CONTROL SWITCH
R795 1K
R796 1K
R797 1K
C793 .001
C794 .001
C792 220P
C790A 0.022
C790 1000U 10V
C789 0.1U
C751 .01U
C751A .1U
CN704 6P
+7.5V
M.GND
D.GND
L.CH
A.GND
R.CH
Ⓑ (Page 20) MAIN BOARD (3/4) CN304
④ DECORD BOARD (4/4) (Page 15)
05

- Voltages are dc with respect to ground under no-signal conditions.

no mark : CD PLAY

4-4. SCHEMATIC DIAGRAM – CD Section (3/4) – • See page 29 for IC Block Diagram.


1
2
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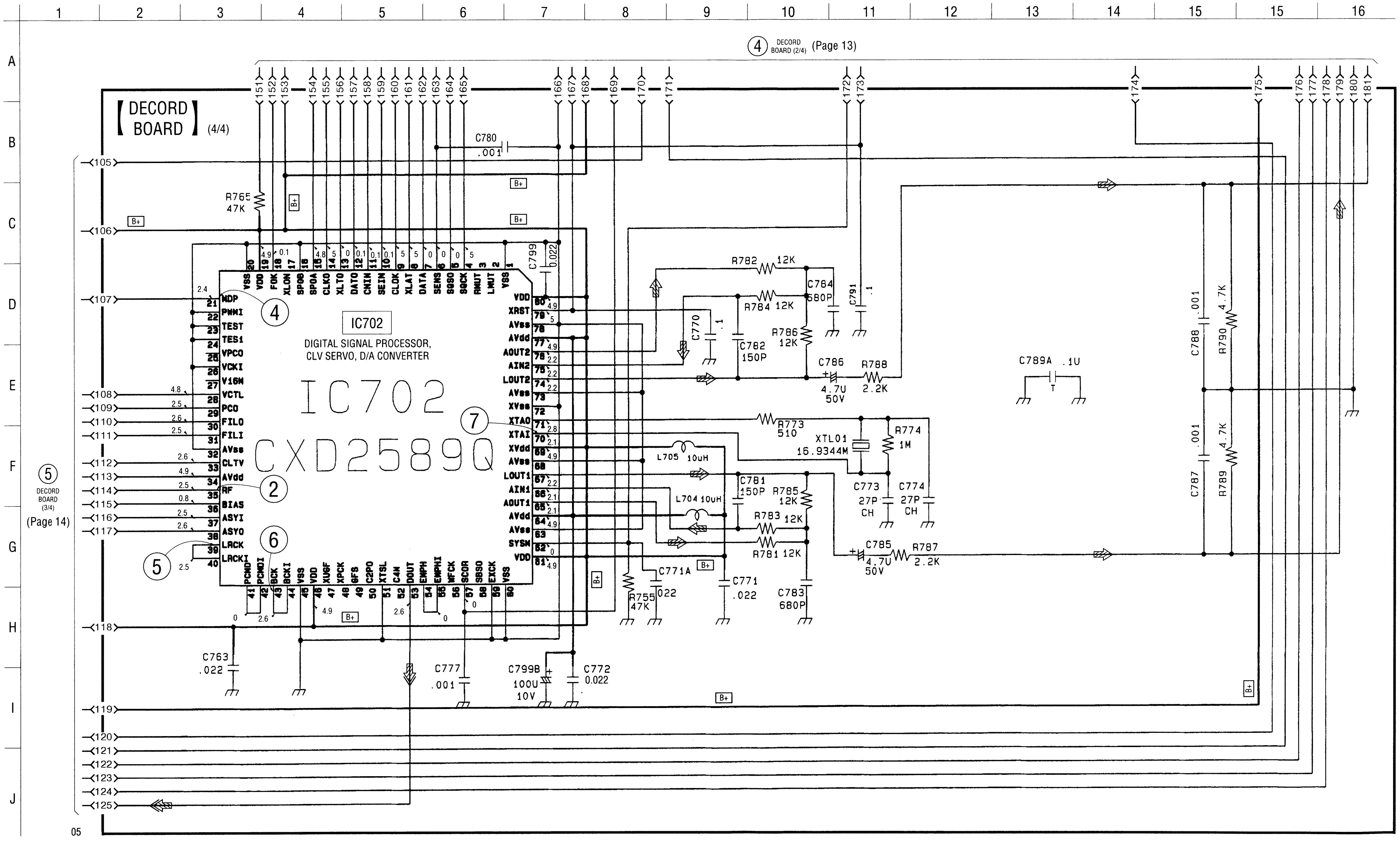
11
12
13
14
A
B
C
D
E
F
G
H
I
J
K
(Page 12)
② DECORD BOARD (1/4)
52
53
54
55
56
57
58
59
60
61
62
【DECORD BOARD】 (3/4)
③ DECORD BOARD (2/4)
(Page 13)
⑤ DECORD BOARD (4/4)
(Page 15)
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
B+
C740A
0.0047
C740B
0.0047
C740C
0.0047
C740D
0.0047
R740 18K
R741 18K
R744 18K
R745 18K
R748 4.7K
R743 12K
C742 .022 T
C743 2200U 10V
R753 4.7K
C745 .01
C757 .01
C753 0.022U
C754 100U 10V
R756 1K
R758 47K
R759 3.3K
C756 .47U 100V
R760 1K
R761 10K
C755 100U 10V
C760 220P
C759 470P
R762 1M
C761 .22U 100V
R763 120K
R764 10K
C762 .01 100V
M
OUT1-
OUT1+
OUT2-
OUT2+
IN2
IN1
VCC
VCC
REG-I
REG-B
REG OUT
IN3-R
IN3-F
OUT3+
OUT3-
GND
GND
OUT6-
OUT6+
IN6-F
IN6-R
MUTE IN
GND
GND
BIAS IN
VCC
IN4
IN5
OUT5+
OUT5-
OUT4+
OUT4-
BA5936S
IC703
IC703
FOCUS/TRACKING COIL DRIVE, SPINDLE/SLED/ DISC TABLE SLIDE/ DISC TRAY TURN MOTOR DRIVE
2.8
2.5
8
0
4
CN702 6P
M101 (SPINDLE)
M102 (SLED)
S05 (LIMIT)
【PHOTO SOCKET BOARD】
PH701 TOTX178
C710A .1U T
2.6
4.9
CD DIGITAL OUT (OPTICAL)
PH701 OPTICAL TRANSCEIVER
CN703 3P
C777A .022 T
05

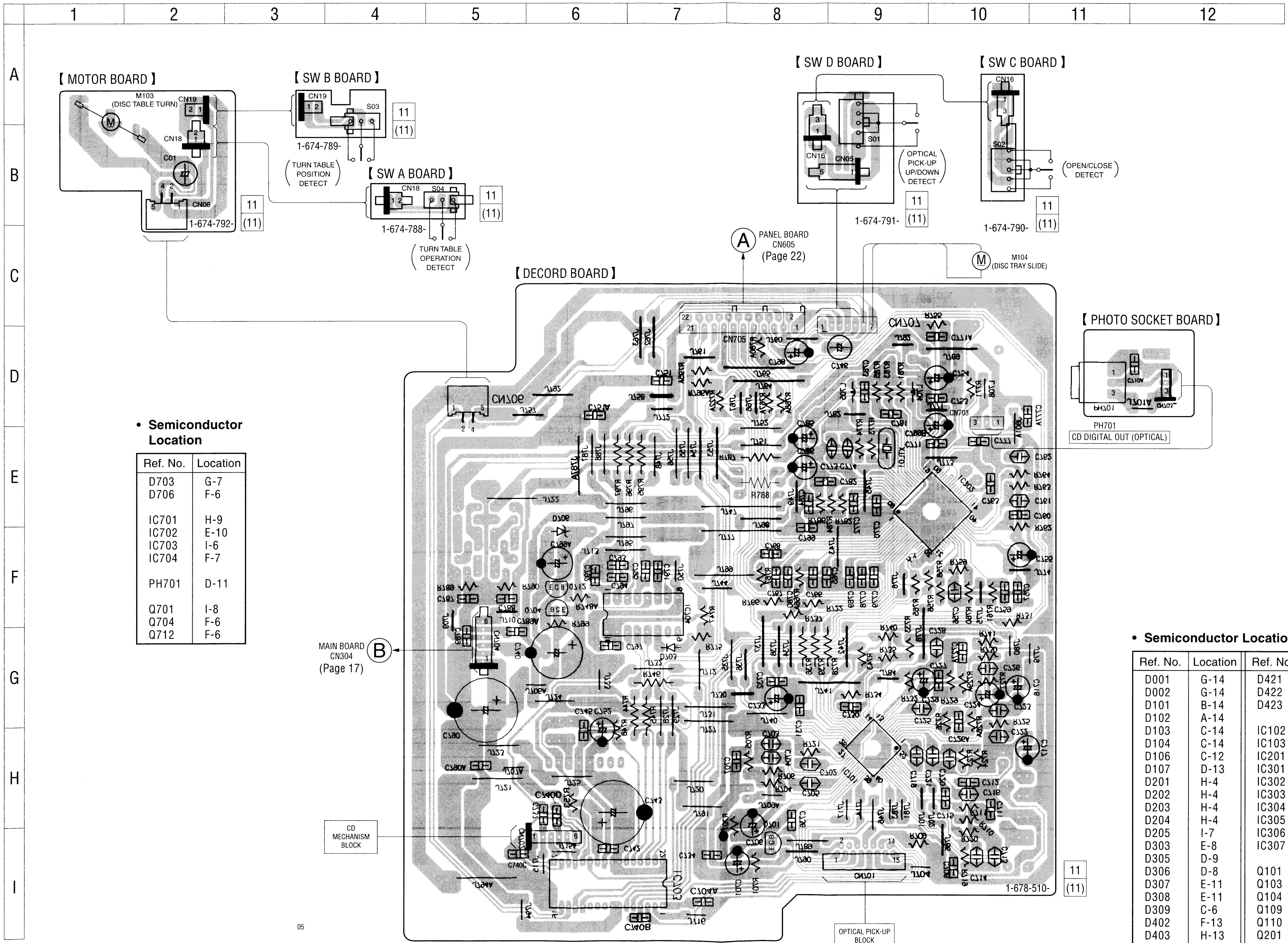
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

4-5. SCHEMATIC DIAGRAM – CD Section (4/4) – • See page 28 for Waveforms. • See page 29 for IC Block Diagram.


④ DECORD BOARD (2/4) (Page 13)
DECORD BOARD (4/4)
⑤ DECORD BOARD (3/4) (Page 14)
IC702
DIGITAL SIGNAL PROCESSOR, CLV SERVO, D/A CONVERTER
IC702
CXD2589Q
R765 47K
C780 .001
R782 12K
R784 12K
C784 680P
C791 .1
C770 .1
C782 150P
R786 12K
C786 4.7U 50V
R788 2.2K
C789A .1U
C788 .001
R790 4.7K
C787 .001
R789 4.7K
R773 510
XTL01 16.9344M
R774 1M
L705 10uH
L704 10uH
C781 150P
R785 12K
R783 12K
R781 12K
C773 27P CH
C774 27P CH
C785 4.7U 50V
R787 2.2K
C771A .022
R755 47K
C771 .022
C783 680P
C763 .022
C777 .001
C799B 100U 10V
C772 0.022
C799 0.022
B+
VSS VDD FOK XLON SPOB SPOA CLKO XLTO DATO CNIN SEIN CLOK XLAT DATA SENS SQSO SQCK RMUT LMUT VSS
MDP PWMI TEST TES1 VPCO VCKI V16M VCTL PCO FILO FILI AVss CLTV AVdd RF BIAS ASYI ASYO LRCK LRCKI
PCMDI PCMDI BCK BCKI VSS VDD XUGF XPCK GFS C2PO XTSL C4M DOUT EMPH EMPHI WFCK SCOR SBSO EXCK VSS
VDD XRST AVss AVdd AOUT2 AIN2 LOUT2 AVss XVss XTAO XTAI XVdd AVss LOUT1 AIN1 AOUT1 AVdd AVss SYSM VDD
105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 16
A B C D E F G H I J
05

• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD PLAY

4-6. PRINTED WIRING BOARDS – CD Section – • See page 11 for Circuit Boards Location.


1
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9
10
11
12
A
B
C
D
E
F
G
H
I
【 MOTOR BOARD 】
M103
(DISC TABLE TURN)
CN19
CN18
C01
CN06
1-674-792-
11
(11)
【 SW B BOARD 】
CN19
S03
1-674-789-
11
(11)
TURN TABLE
POSITION
DETECT
【 SW A BOARD 】
CN18
S04
1-674-788-
11
(11)
TURN TABLE
OPERATION
DETECT
【 SW D BOARD 】
CN16
CN05
S01
OPTICAL
PICK-UP
UP/DOWN
DETECT
1-674-791-
11
(11)
【 SW C BOARD 】
CN16
S02
OPEN/CLOSE
DETECT
1-674-790-
11
(11)
A
PANEL BOARD
CN605
(Page 22)
M104
(DISC TRAY SLIDE)
【 DECORD BOARD 】
CN705
CN703
CN706
R788
IC701
IC702
IC703
IC704
D706
D703
C740C
CN701
1-678-510-
11
(11)
【 PHOTO SOCKET BOARD 】
PH701
CD DIGITAL OUT (OPTICAL)
MAIN BOARD
CN304
(Page 17)
B
CD
MECHANISM
BLOCK
OPTICAL PICK-UP
BLOCK
(OPTIMA-7)
05

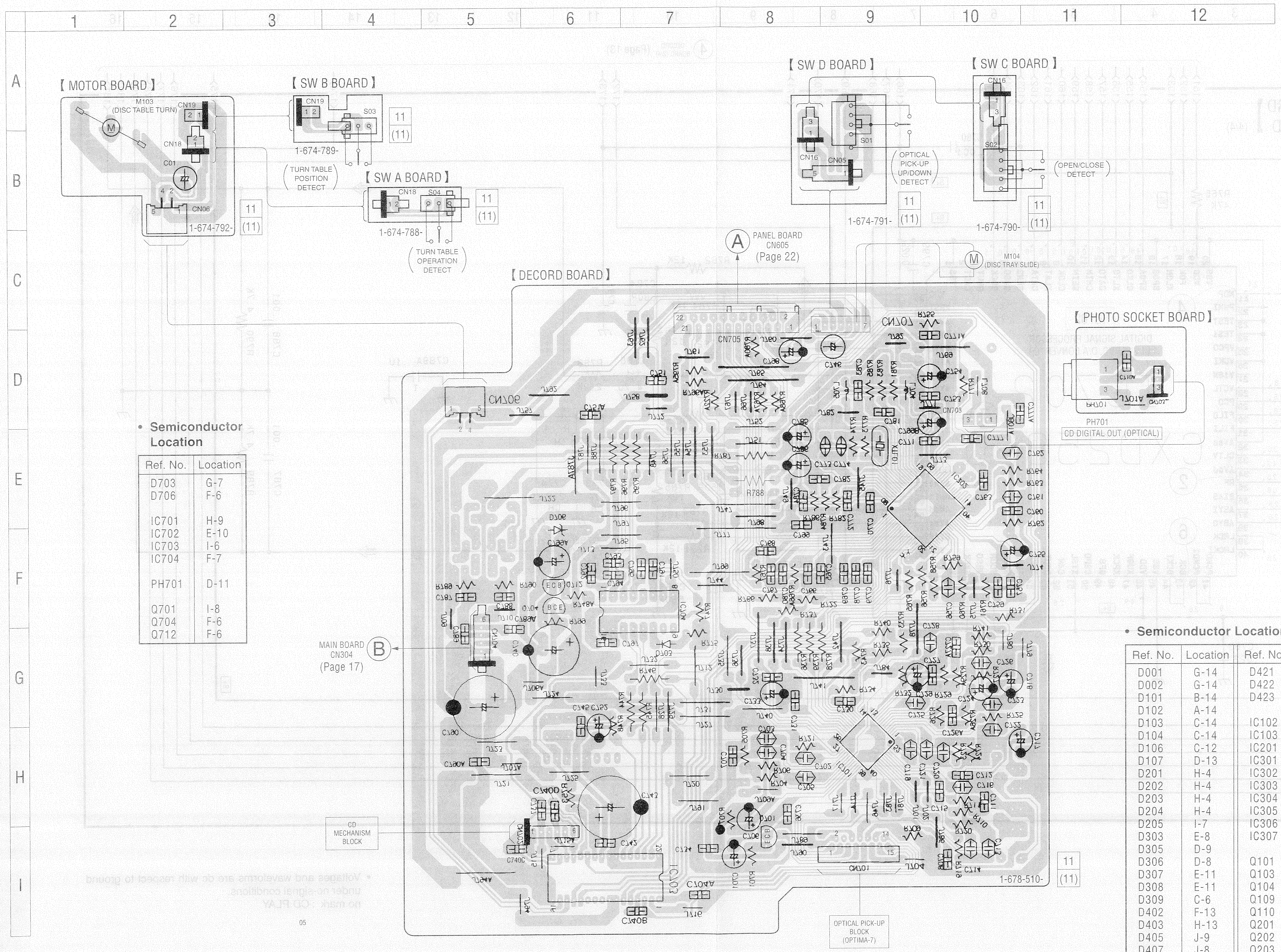
• Semiconductor Location

Ref. No.	Location
D703	G-7
D706	F-6
IC701	H-9
IC702	E-10
IC703	I-6
IC704	F-7
PH701	D-11
Q701	I-8
Q704	F-6
Q712	F-6

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D001	G-14	D421	J-13	Q213	I-7
D002	G-14	D422	J-12	Q214	I-7
D101	B-14	D423	J-10	Q251	J-5
D102	A-14			Q252	J-8
D103	C-14	IC102	C-11	Q253	I-8
D104	C-14	IC103	A-11	Q303	E-13
D106	C-12	IC201	I-6	Q304	E-13
D107	D-13	IC301	E-6	Q305	D-9
D201	H-4	IC302	C-5	Q308	G-4
D202	H-4	IC303	E-3	Q309	G-4
D203	H-4	IC304	D-13	Q312	F-3
D204	H-4	IC305	E-4	Q313	F-4
D205	I-7	IC306	H-8	Q316	D-8
D303	E-8	IC307	E-11	Q317	D-7
D305	D-9			Q319	D-9
D306	D-8	Q101	B-12	Q320	D-8
D307	E-11	Q103	B-13	Q321	D-14
D308	E-11	Q104	D-13	Q401	I-9
D309	C-6	Q109	B-8	Q403	I-8
D402	F-13	Q110	B-8	Q405	I-8
D403	H-13	Q201	I-4	Q406	H-9
D405	J-9	Q202	I-4	Q411	E-10
D407	J-8	Q203	I-4	Q412	J-9
D409	G-9	Q204	I-4	Q413	J-9
D410	G-9	Q205	I-4	Q414	J-9
D411	H-11	Q206	I-4	Q415	I-9
D412	I-11	Q207	I-4	Q416	J-9
D417	E-9	Q208	H-4	Q419	J-3
D418	G-3	Q209	H-4	Q420	J-3
D419	I-3	Q210	G-6		
D420	J-13	Q211	G-5		

4-6. PRINTED WIRING BOARDS – CD Section – • See page 11 for Circuit Boards Location.


1
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12
A
B
C
D
E
F
G
H
I
[MOTOR BOARD]
M103
(DISC TABLE TURN)
CN19
CN18
C01
CN06
1-674-792-
11
(11)
[SW B BOARD]
CN19
S03
1-674-789-
11
(11)
TURN TABLE POSITION DETECT
[SW A BOARD]
CN18
S04
1-674-788-
11
(11)
TURN TABLE OPERATION DETECT
[SW D BOARD]
S01
CN16
CN05
OPTICAL PICK-UP UP/DOWN DETECT
1-674-791-
11
(11)
[SW C BOARD]
CN16
S02
OPEN/CLOSE DETECT
1-674-790-
11
(11)
A
PANEL BOARD
CN605
(Page 22)
M
M104
(DISC TRAY SLIDE)
[DECORD BOARD]
[PHOTO SOCKET BOARD]
PH701
CD DIGITAL OUT (OPTICAL)
MAIN BOARD
CN304
(Page 17)
B
CD MECHANISM BLOCK
OPTICAL PICK-UP BLOCK (OPTIMA-7)
1-678-510-
11
(11)

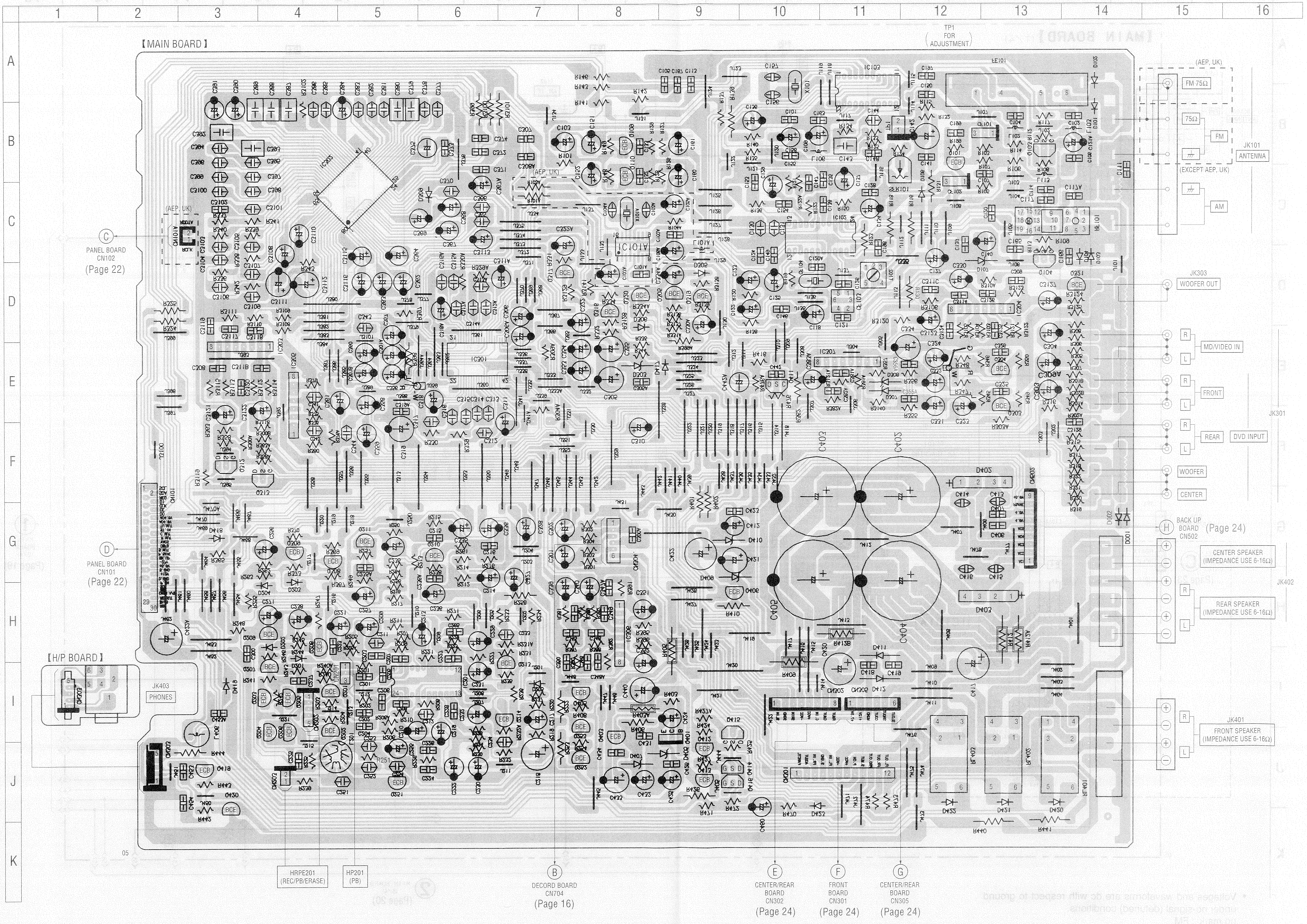
• **Semiconductor Location**

Ref. No.	Location
D703	G-7
D706	F-6
IC701	H-9
IC702	E-10
IC703	I-6
IC704	F-7
PH701	D-11
Q701	I-8
Q704	F-6
Q712	F-6

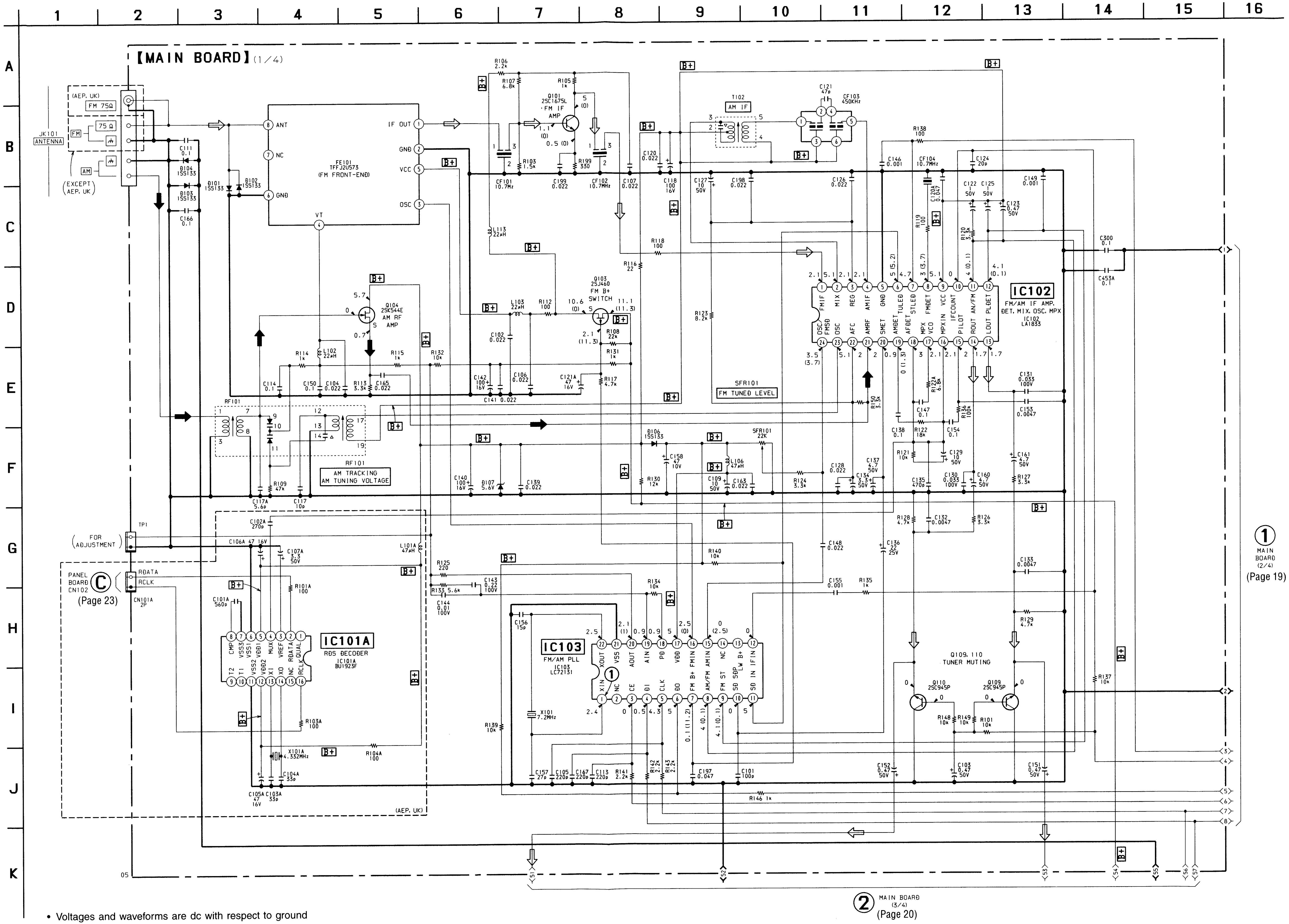
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D001	G-14	D421	J-13	Q213	I-7
D002	G-14	D422	J-12	Q214	I-7
D101	B-14	D423	J-10	Q251	J-5
D102	A-14			Q252	J-8
D103	C-14	IC102	C-11	Q253	I-8
D104	C-14	IC103	A-11	Q303	E-13
D106	C-12	IC201	I-6	Q304	E-13
D107	D-13	IC301	E-6	Q305	D-9
D201	H-4	IC302	C-5	Q308	G-4
D202	H-4	IC303	E-3	Q309	G-4
D203	H-4	IC304	D-13	Q312	F-3
D204	H-4	IC305	E-4	Q313	F-4
D205	I-7	IC306	H-8	Q316	D-8
D303	E-8	IC307	E-11	Q317	D-7
D305	D-9			Q319	D-9
D306	D-8	Q101	B-12	Q320	D-8
D307	E-11	Q103	B-13	Q321	D-14
D308	E-11	Q104	D-13	Q401	I-9
D309	C-6	Q109	B-8	Q403	I-8
D402	F-13	Q110	B-8	Q405	I-8
D403	H-13	Q201	I-4	Q406	H-9
D405	J-9	Q202	I-4	Q411	E-10
D407	J-8	Q203	I-4	Q412	J-9
D409	G-9	Q204	I-4	Q413	J-9
D410	G-9	Q205	I-4	Q414	J-9
D411	H-11	Q206	I-4	Q415	I-9
D412	I-11	Q207	I-4	Q416	J-9
D417	E-9	Q208	H-4	Q419	J-3
D418	G-3	Q209	H-4	Q420	J-3
D419	I-3	Q210	G-6		
D420	J-13	Q211	G-5		

4-7. PRINTED WIRING BOARDS – MAIN Section – • See page 11 for Circuit Boards Location.

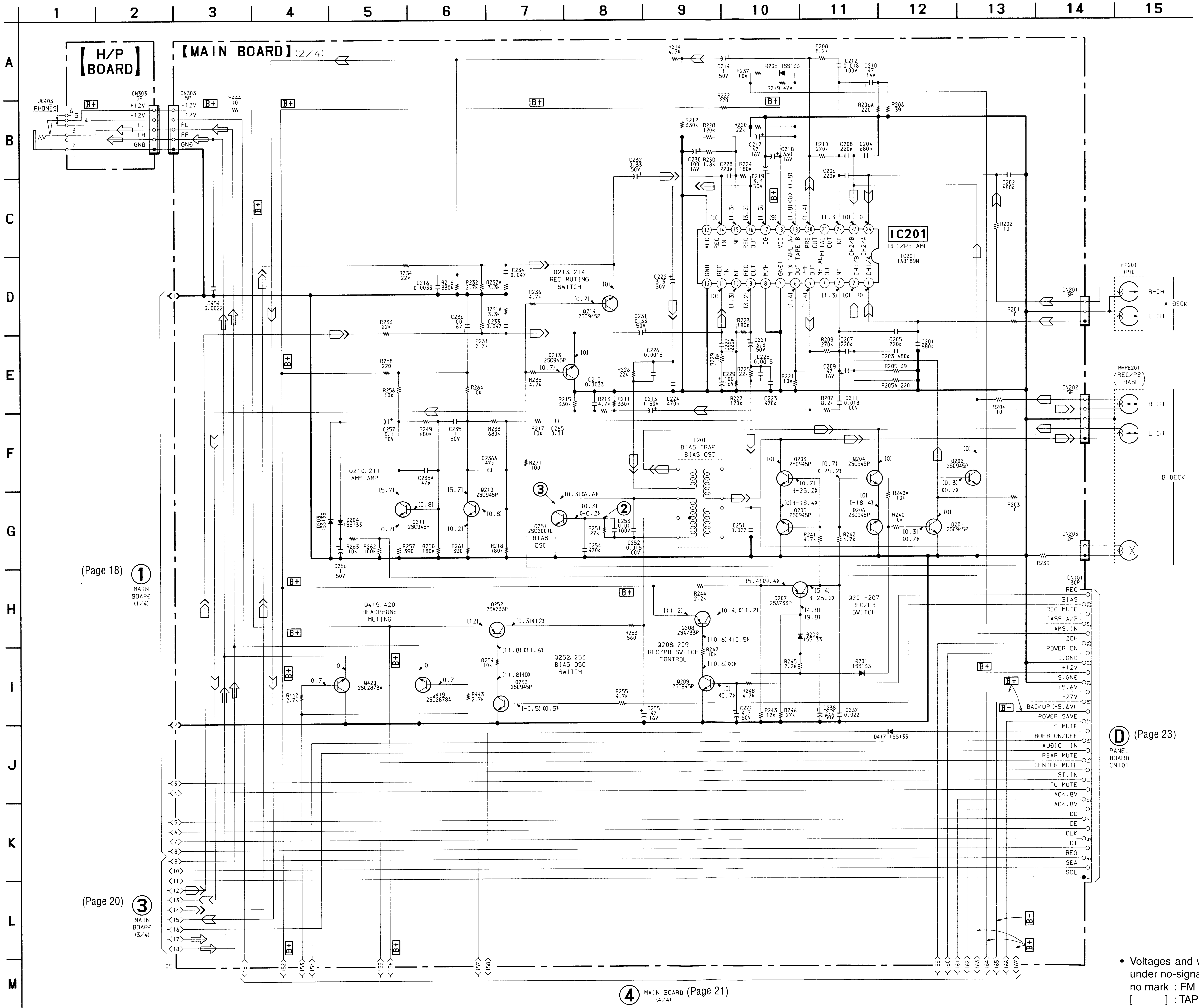

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
【MAIN BOARD】
TP1 (FOR ADJUSTMENT)
(AEP, UK)
FM 75Ω
75Ω
FM
JK101 ANTENNA
(EXCEPT AEP, UK)
AM
JK303 WOOFER OUT
MD/VIDEO IN
FRONT
REAR
DVD INPUT
JK301
WOOFER
CENTER
R
L
BACK UP BOARD CN502 (Page 24)
CENTER SPEAKER (IMPEDANCE USE 6-16Ω)
JK402
REAR SPEAKER (IMPEDANCE USE 6-16Ω)
JK401
FRONT SPEAKER (IMPEDANCE USE 6-16Ω)
C PANEL BOARD CN102 (Page 22)
D PANEL BOARD CN101 (Page 22)
(AEP, UK)
【H/P BOARD】
JK403 PHONES
HRPE201 (REC/PB/ERASE)
HP201 (PB)
B DECORD BOARD CN704 (Page 16)
E CENTER/REAR BOARD CN302 (Page 24)
F FRONT BOARD CN301 (Page 24)
G CENTER/REAR BOARD CN305 (Page 24)
IC101
IC102
IC201
IC205
C402
C403
C404
C405

4-8. SCHEMATIC DIAGRAM – MAIN Section (1/4) – • See page 28 for Waveform. • See page 29 for IC Block Diagram.


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
【MAIN BOARD】(1/4)
JK101 ANTENNA
(AEP, UK) FM 75Ω
FM 75Ω
AM
(EXCEPT AEP, UK)
FE101 TFF J2U573 (FM FRONT-END)
ANT
NC
GND
IF OUT
VCC
OSC
VT
Q101 2SC1675L ·FM IF AMP
Q103 2SJ460 FM B+ SWITCH
Q104 2SK544E AM RF AMP
CF101 10.7MHz
CF102 10.7MHz
T102 AM IF
CF103 450kHz
CF104 10.7MHz
IC102
FM/AM IF AMP, DET, MIX, OSC, MPX
IC102 LA1833
FMIF MIX REG AFC AMIF GND TULED STLED FMDET VCC IFCOUNT AN/FM PLDET
OSC FMSD OSC AFC AMRF SMET AMDET AFDET MPX VCO MPXIN PILOT ROUT LOUT
SFR101 FM TUNED LEVEL
RF101
RF101 AM TRACKING AM TUNING VOLTAGE
SFR101 22k
IC101A
RDS DECODER
IC101A BU1923F
CMP VSS3 VSS1 VDD1 MUX VREF RDATA QUAL
T2 T1 VSS2 VDD2 XI XO NC RCLK
X101A 4.332MHz
IC103
FM/AM PLL
IC103 LC72131
XOUT VSS AOUT AIN PD VDD FM B+ FMIN AM/FM AMIN NC FM ST SD SDP LW B+ IFIN
XIN NC CE DI CLK DO
X101 7.2MHz
Q109, 110 TUNER MUTING
Q110 2SC945P
Q109 2SC945P
TP1
FOR ADJUSTMENT
PANEL BOARD CN102
Ⓒ (Page 23)
CN101A 2P
RDATA RCLK
(AEP, UK)
① MAIN BOARD (2/4) (Page 19)
② MAIN BOARD (3/4) (Page 20)
B+

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM

4-9. SCHEMATIC DIAGRAM – MAIN Section (2/4) – • See page 28 for Waveforms. • See page 29 for IC Block Diagram.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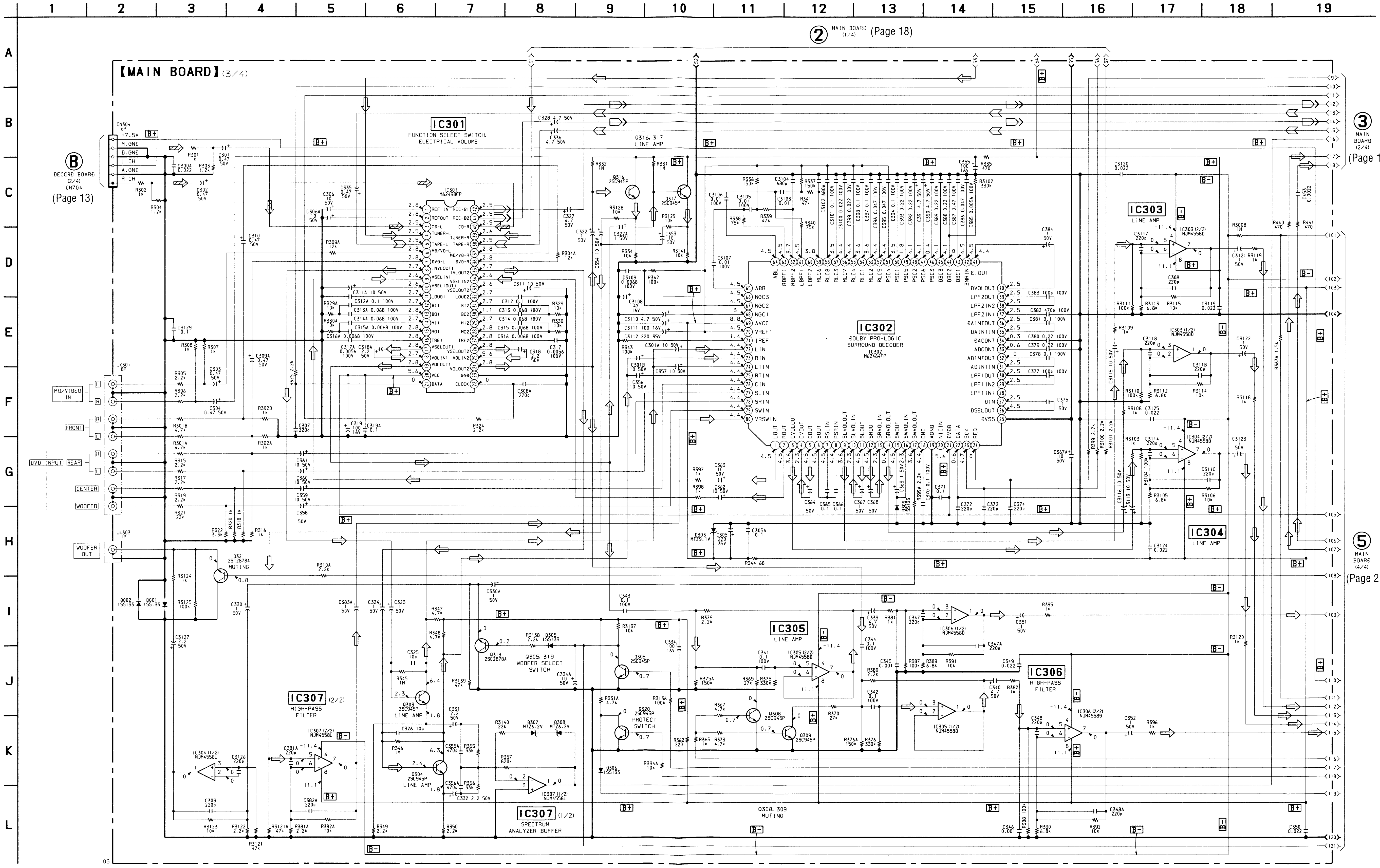
H
I
J
K
L
M
H/P BOARD
MAIN BOARD (2/4)
JK403 PHONES
CN303 5P
CN303 5P
+12V
FL
FR
GND
B+
R444 10
IC201
REC/PB AMP
IC201 TA8189N
ALC
REC IN
NF
REC OUT
CG
VCC
MIX TAPE A/ OUT TAPE B
PRE OUT
METAL
GND
M/H
GND1
CH1/B
CH2/A
CH2/B
CH1/A
Q213, 214 REC MUTING SWITCH
Q214 2SC945P
Q213 2SC945P
Q210, 211 AMS AMP
Q210 2SC945P
Q211 2SC945P
D204 1SS133
D203 1SS133
Q251 2SC2001L BIAS OSC
L201 BIAS TRAP, BIAS OSC
Q203 2SC945P
Q204 2SC945P
Q205 2SC945P
Q206 2SC945P
Q202 2SC945P
Q201 2SC945P
D205 1SS133
HP201 (PB)
R-CH
L-CH
A DECK
HRPE201 (REC/PB) (ERASE)
B DECK
CN201 3P
CN202 5P
CN203 2P
CN101 30P
REC
BIAS
REC MUTE
CASS A/B
AMS. IN
2CH
POWER ON
D.GND
+12V
S.GND
+5.6V
-27V
BACKUP (+5.6V)
POWER SAVE
S MUTE
BOFB ON/OFF
AUDIO IN
REAR MUTE
CENTER MUTE
ST. IN
TU MUTE
AC4.8V
AC4.8V
DO
CE
CLK
DI
REG
SDA
SCL
Q419, 420 HEADPHONE MUTING
Q420 2SC2878A
Q419 2SC2878A
Q252 2SA733P
Q253 2SC945P
Q252, 253 BIAS OSC SWITCH
Q207 2SA733P
Q208 2SA733P
Q209 2SC945P
Q208, 209 REC/PB SWITCH CONTROL
Q201-207 REC/PB SWITCH
D202 1SS133
D201 1SS133
D417 1SS133
B-
(Page 18) ① MAIN BOARD (1/4)
(Page 20) ③ MAIN BOARD (3/4)
④ MAIN BOARD (4/4) (Page 21)
Ⓓ (Page 23) PANEL BOARD CN101

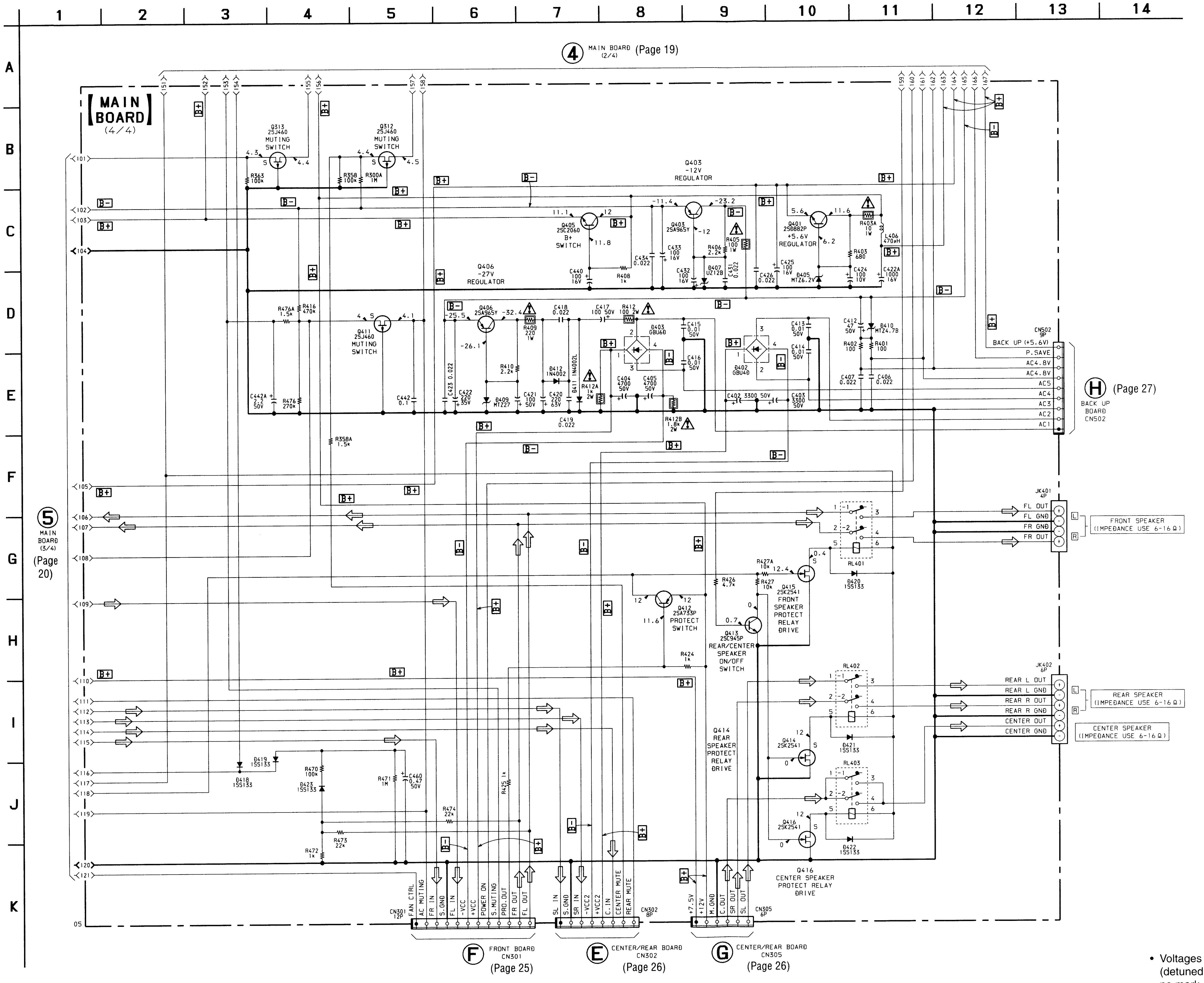
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  [ ] : TAPE PLAY (DECK A)
  < > : TAPE PLAY (DECK B)
  《 》: TAPE REC

4-10. SCHEMATIC DIAGRAM – MAIN Section (3/4) –


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
A B C D E F G H I J K L
【MAIN BOARD】(3/4)
② MAIN BOARD (1/4) (Page 18)
③ MAIN BOARD (2/4) (Page 19)
⑤ MAIN BOARD (4/4) (Page 21)
Ⓑ DECORD BOARD (2/4) CN704 (Page 13)
CN304 6P
+7.5V
M.GND
D.GND
L CH
A.GND
R CH
IC301
FUNCTION SELECT SWITCH, ELECTRICAL VOLUME
IC301 M62498FP
Q316, 317 LINE AMP
IC302
DOLBY PRO-LOGIC SURROUND DECODER
IC302 M62464FP
IC303
LINE AMP
IC304
LINE AMP
IC305
LINE AMP
IC306
HIGH-PASS FILTER
IC307 (2/2)
HIGH-PASS FILTER
IC307 (1/2)
SPECTRUM ANALYZER BUFFER
Q305, 319 WOOFER SELECT SWITCH
Q320 2SC945P PROTECT SWITCH
Q308, 309 MUTING
Q321 2SC2878A MUTING
Q303 2SC945P LINE AMP
Q304 2SC945P LINE AMP
JK301 8P
MD/VIDEO IN
FRONT
DVD INPUT REAR
CENTER
WOOFER
JK303 1P
WOOFER OUT
B+
B-

- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

4-11. SCHEMATIC DIAGRAM – MAIN Section (4/4) –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H
I
J
K
④ MAIN BOARD (2/4) (Page 19)
MAIN BOARD (4/4)
Q313 2SJ460 MUTING SWITCH
Q312 2SJ460 MUTING SWITCH
R363 100k
R358 100k
R300A 1M
Q403 -12V REGULATOR
Q405 2SC2060 B+ SWITCH
Q403 2SA965Y
Q401 2SD882P +5.6V REGULATOR
R403A 10 1W
L406 470µH
R405 100 1W
R406 2.2k
D407 UZ12B
D405 MTZ6.2V
Q406 -27V REGULATOR
Q406 2SA965Y
R409 220 1W
R410 2.2k
D409 MTZ27
D412 1N4002
D411 1N4002L
R412A 1k 2W
R412 100 2W
R412B 1.8k 2W
D403 GBU6D
D402 GBU4D
D410 MTZ4.7B
R402 100
R401 100
Q411 2SJ460 MUTING SWITCH
R476A 1.5k
R416 470k
R476 270k
R358A 1.5k
CN502 9P
BACK UP (+5.6V)
P.SAVE
AC4.8V
AC4.8V
AC5
AC4
AC3
AC2
AC1
Ⓗ (Page 27)
BACK UP BOARD CN502
⑤ MAIN BOARD (3/4) (Page 20)
JK401 4P
FL OUT
FL GND
FR GND
FR OUT
FRONT SPEAKER (IMPEDANCE USE 6-16Ω)
RL401
D420 1SS133
R427A 10k
R427 10k
R426 4.7k
Q415 2SK2541 FRONT SPEAKER PROTECT RELAY DRIVE
Q412 2SA733P PROTECT SWITCH
Q413 2SC945P REAR/CENTER SPEAKER ON/OFF SWITCH
R424 1k
JK402 6P
REAR L OUT
REAR L GND
REAR R OUT
REAR R GND
CENTER OUT
CENTER GND
REAR SPEAKER (IMPEDANCE USE 6-16Ω)
CENTER SPEAKER (IMPEDANCE USE 6-16Ω)
RL402
Q414 REAR SPEAKER PROTECT RELAY DRIVE
Q414 2SK2541
D421 1SS133
RL403
Q416 2SK2541
D422 1SS133
Q416 CENTER SPEAKER PROTECT RELAY DRIVE
D419 1SS133
D418 1SS133
R470 100k
D423 1SS133
R471 1M
C460 0.47 50V
R474 22k
R473 22k
R472 1k
R425 1k
CN301 12P
FAN CTRL
AC MUTING
FR IN
S.GND
FL IN
-VCC
+VCC
POWER ON
S.MUTING
PRO.OUT
FR OUT
FL OUT
SL IN
S.GND
SR IN
-VCC2
+VCC2
C.IN
CENTER MUTE
REAR MUTE
CN302 8P
+7.5V
+12V
M.GND
C.OUT
SR OUT
SL OUT
CN305 6P
Ⓕ FRONT BOARD CN301 (Page 25)
Ⓔ CENTER/REAR BOARD CN302 (Page 26)
Ⓖ CENTER/REAR BOARD CN305 (Page 26)

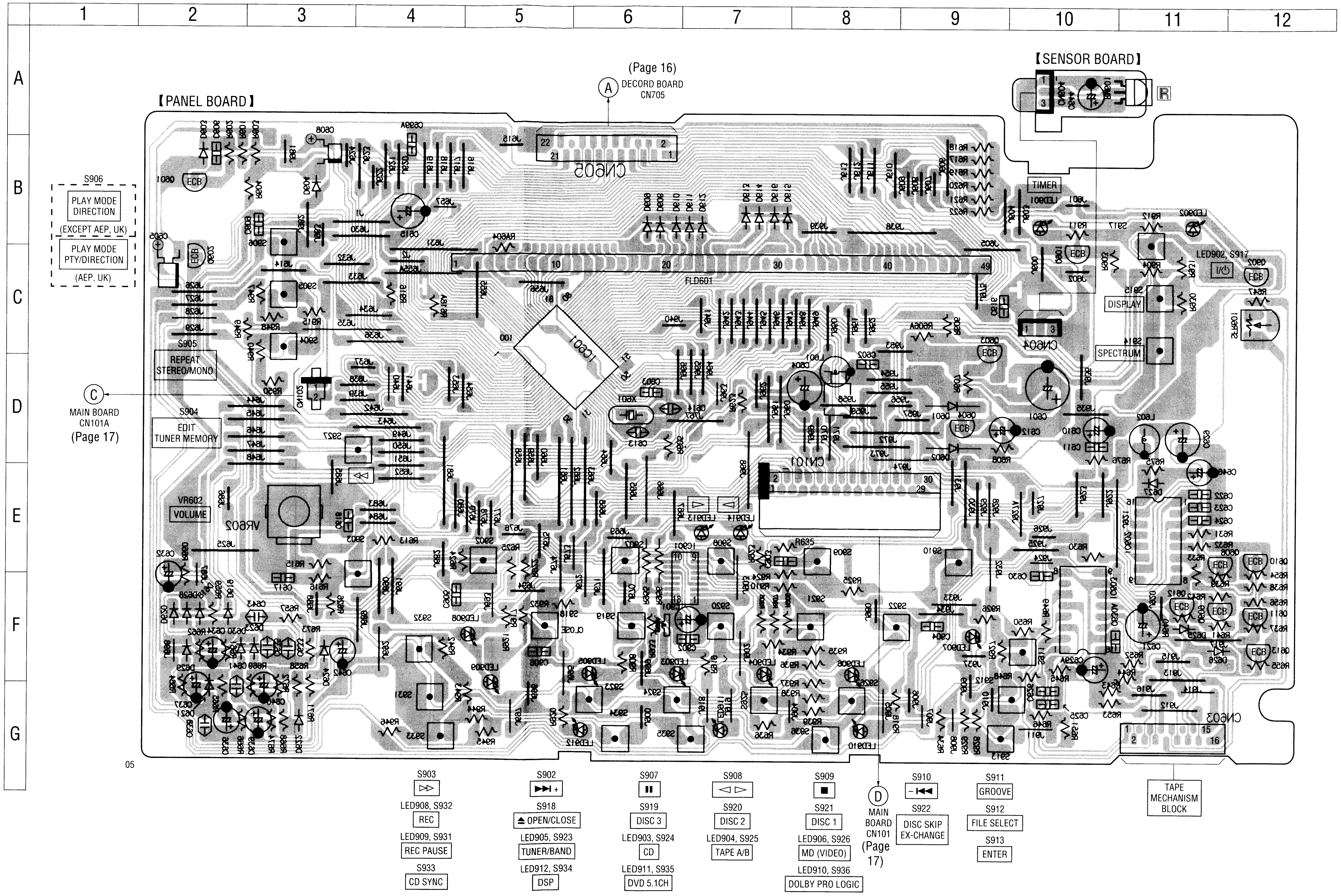
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-12. PRINTED WIRING BOARDS – PANEL Section – • See page 11 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D601	D-9
D602	D-9
D603	B-2
D604	B-3
D608	B-6
D609	B-6
D610	B-6
D611	B-7
D612	B-7
D613	B-7
D614	B-7
D615	B-7
D616	B-7
D618	F-2
D619	F-2
D620	F-2
D621	G-2
D622	G-3
D623	F-3
D624	F-3
D625	F-11
D626	F-11
D627	E-11
D628	F-2
D629	F-2
D630	F-2
IC601	C-5
IC602	E-11
IC603	F-10
IC901	F-7
LED901	B-10
LED902	B-11
LED903	F-6
LED904	F-7
LED905	F-6
LED906	F-8
LED907	F-9
LED908	F-5
LED909	F-5
LED910	G-8
LED911	G-7
LED912	G-6
LED913	E-7
LED914	E-7
Q601	B-2
Q602	C-2
Q603	C-9
Q604	D-9
Q608	E-11
Q609	F-11
Q610	E-12
Q611	F-12
Q612	F-11
Q613	F-12
Q901	C-10
Q902	C-12
RM601	A-11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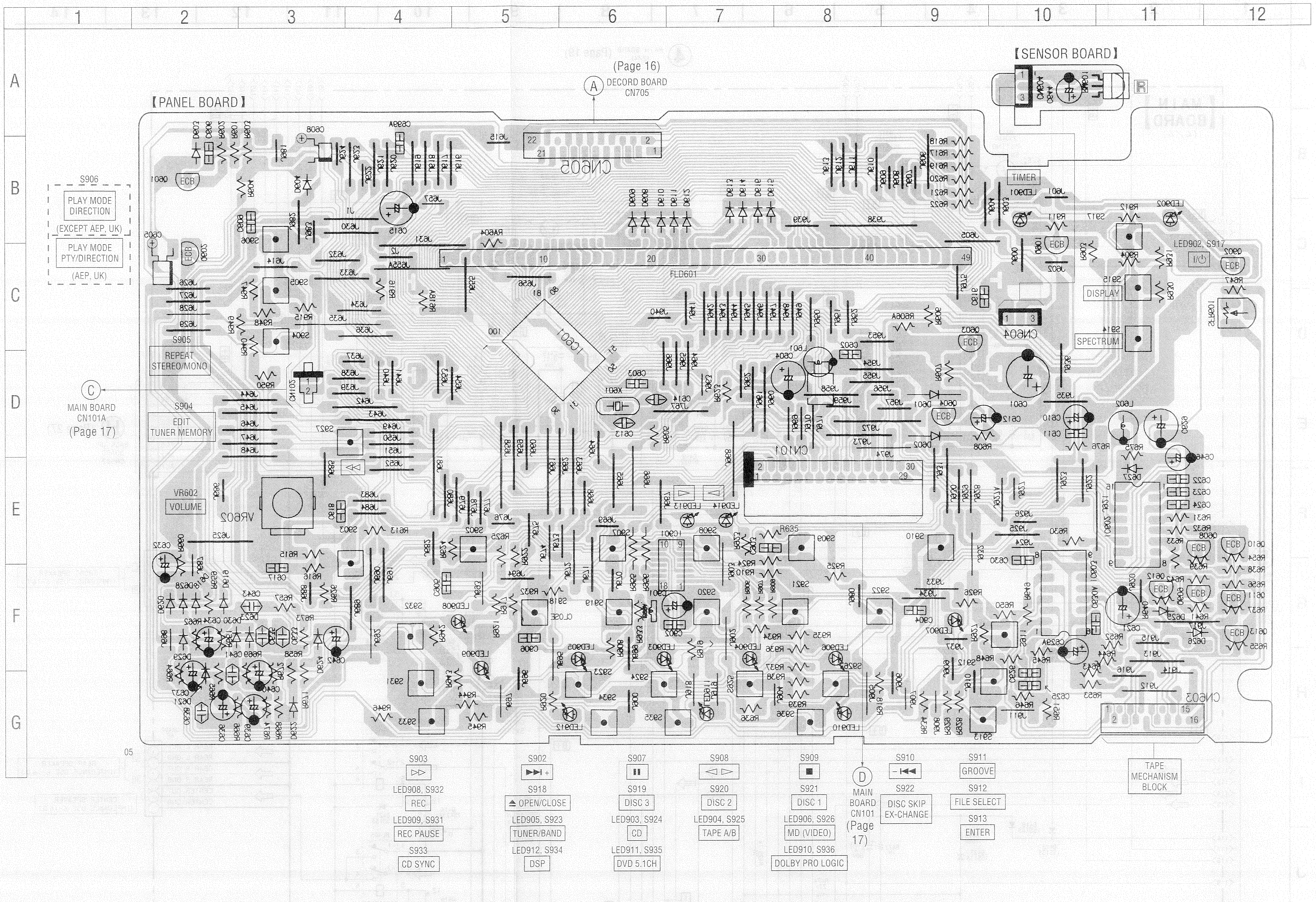
【PANEL BOARD】
【SENSOR BOARD】
(Page 16)
A DECORD BOARD CN705
S906
PLAY MODE DIRECTION
(EXCEPT AEP, UK)
PLAY MODE PTY/DIRECTION
(AEP, UK)
C MAIN BOARD CN101A (Page 17)
S905 REPEAT STEREO/MONO
S904 EDIT TUNER MEMORY
VR602 VOLUME
CN605
CN604
CN603
CN101
FLD601
IC601
TIMER
DISPLAY
SPECTRUM
LED902, S917
S903 ▷▷
LED908, S932 REC
LED909, S931 REC PAUSE
S933 CD SYNC
S902 ▶▶I +
S918 ≜ OPEN/CLOSE
LED905, S923 TUNER/BAND
LED912, S934 DSP
S907 II
S919 DISC 3
LED903, S924 CD
LED911, S935 DVD 5.1CH
S908 ◁ ▷
S920 DISC 2
LED904, S925 TAPE A/B
S909 ■
S921 DISC 1
LED906, S926 MD (VIDEO)
LED910, S936 DOLBY PRO LOGIC
D MAIN BOARD CN101 (Page 17)
S910 – I◀◀
S922 DISC SKIP EX-CHANGE
S911 GROOVE
S912 FILE SELECT
S913 ENTER
TAPE MECHANISM BLOCK
05

4-12. PRINTED WIRING BOARDS – PANEL Section – • See page 11 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D601	D-9
D602	D-9
D603	B-2
D604	B-3
D608	B-6
D609	B-6
D610	B-6
D611	B-7
D612	B-7
D613	B-7
D614	B-7
D615	B-7
D616	B-7
D618	F-2
D619	F-2
D620	F-2
D621	G-2
D622	G-3
D623	F-3
D624	F-3
D625	F-11
D626	F-11
D627	E-11
D628	F-2
D629	F-2
D630	F-2
IC601	C-5
IC602	E-11
IC603	F-10
IC901	F-7
LED901	B-10
LED902	B-11
LED903	F-6
LED904	F-7
LED905	F-6
LED906	F-8
LED907	F-9
LED908	F-5
LED909	F-5
LED910	G-8
LED911	G-7
LED912	G-6
LED913	E-7
LED914	E-7
Q601	B-2
Q602	C-2
Q603	C-9
Q604	D-9
Q608	E-11
Q609	F-11
Q610	E-12
Q611	F-12
Q612	F-11
Q613	F-12
Q901	C-10
Q902	C-12
RM601	A-11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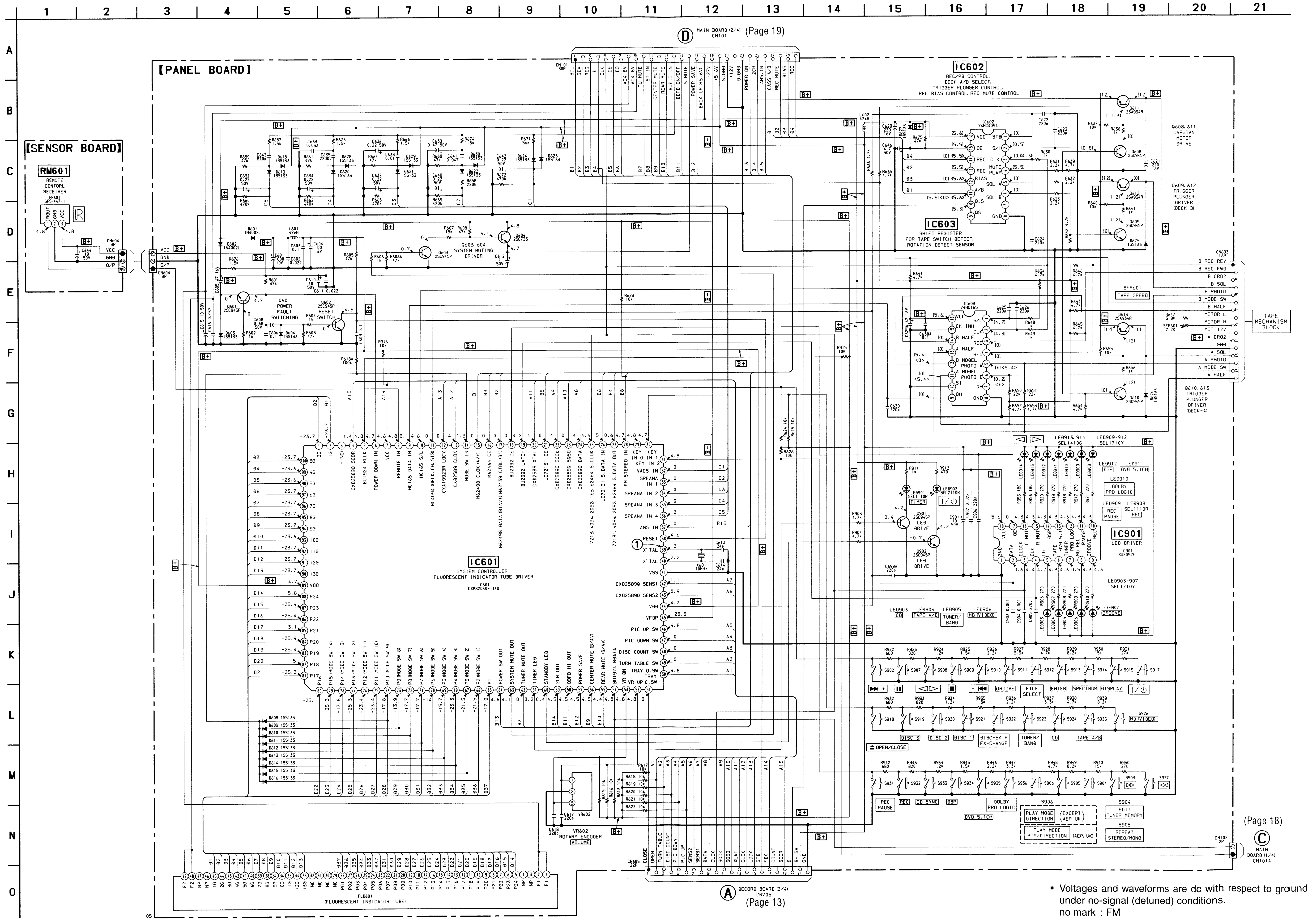
【SENSOR BOARD】
【PANEL BOARD】
(Page 16)
A
DECORD BOARD
CN705
CN605
FLD601
IC601
CN101
CN604
CN603
S906
PLAY MODE
DIRECTION
(EXCEPT AEP, UK)
PLAY MODE
PTY/DIRECTION
(AEP, UK)
S905
REPEAT
STEREO/MONO
S904
EDIT
TUNER MEMORY
VR602
VOLUME
C
MAIN BOARD
CN101A
(Page 17)
TIMER
LED902, S917
I/Ò
S915
DISPLAY
S914
SPECTRUM
S903
▷▷
LED908, S932
REC
LED909, S931
REC PAUSE
S933
CD SYNC
S902
▶▶I +
S918
⏏ OPEN/CLOSE
LED905, S923
TUNER/BAND
LED912, S934
DSP
S907
II
S919
DISC 3
LED903, S924
CD
LED911, S935
DVD 5.1CH
S908
◁ ▷
S920
DISC 2
LED904, S925
TAPE A/B
S909
■
S921
DISC 1
LED906, S926
MD (VIDEO)
LED910, S936
DOLBY PRO LOGIC
D
MAIN BOARD
CN101
(Page 17)
S910
– I◀◀
S922
DISC SKIP
EX-CHANGE
S911
GROOVE
S912
FILE SELECT
S913
ENTER
TAPE
MECHANISM
BLOCK

4-13. SCHEMATIC DIAGRAM – PANEL Section – • See page 28 for Waveform. • See page 29 for IC Block Diagrams.


【PANEL BOARD】
【SENSOR BOARD】
RM601
REMOTE CONTROL RECEIVER
RM601 SPS-447-1
(D) MAIN BOARD (2/4) CN101 (Page 19)
CN101 30P
IC602
REC/PB CONTROL, DECK A/B SELECT, TRIGGER PLUNGER CONTROL, REC BIAS CONTROL, REC MUTE CONTROL
IC603
SHIFT REGISTER FOR TAPE SWITCH DETECT, ROTATION DETECT SENSOR
IC601
SYSTEM CONTROLLER, FLUORESCENT INDICATOR TUBE DRIVER
IC601 CXP82040-114Q
IC901
LED DRIVER
IC901 BU2092F
Q601 POWER FAULT SWITCHING
Q602 RESET SWITCH
Q603, 604 SYSTEM MUTING DRIVER
Q608, 611 CAPSTAN MOTOR DRIVE
Q609, 612 TRIGGER PLUNGER DRIVER (DECK-B)
Q610, 613 TRIGGER PLUNGER DRIVER (DECK-A)
Q901 LED DRIVE
Q902 LED DRIVE
SFR601 TAPE SPEED
CN603 16P
TAPE MECHANISM BLOCK
X601 10MHz
VR602 ROTARY ENCODER VOLUME
FL601 (FLUORESCENT INDICATOR TUBE)
CN605 22P
(A) DECORD BOARD (2/4) CN705 (Page 13)
CN102 2P
(C) MAIN BOARD (1/4) CN101A (Page 18)
DOLBY PRO LOGIC
DVD 5.1CH
REC PAUSE
TUNER/BAND
MD (VIDEO)
TAPE A/B
GROOVE
FILE SELECT
ENTER
SPECTRUM
DISPLAY
OPEN/CLOSE
DISC 3
DISC 2
DISC 1
DISC-SKIP EX-CHANGE
CD SYNC
DSP
PLAY MODE DIRECTION (EXCEPT AEP, UK)
PLAY MODE PTY/DIRECTION (AEP, UK)
EDIT TUNER MEMORY
REPEAT STEREO/MONO

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

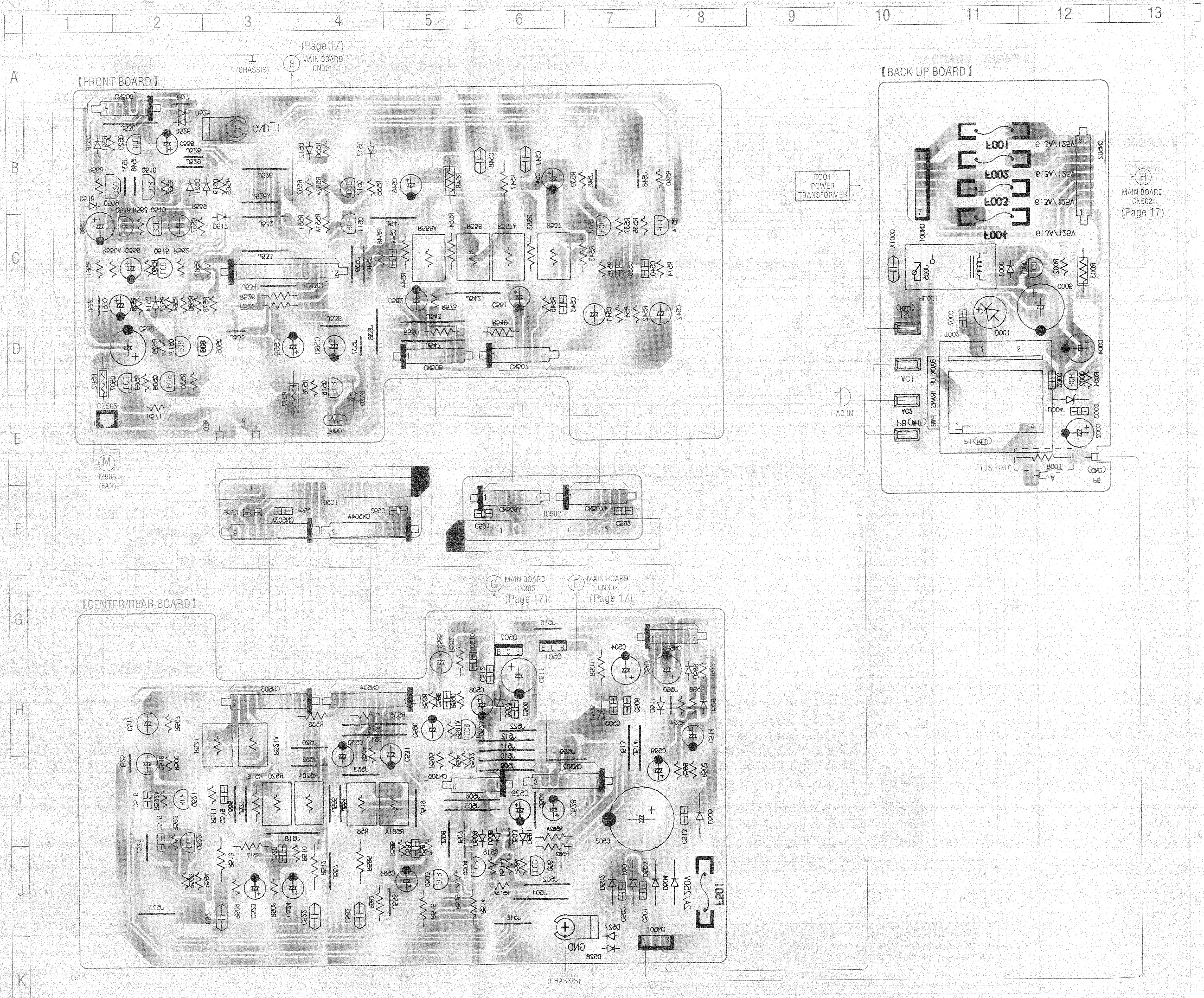
no mark : FM
[ ] : TAPE PLAY (DECK A)
< > : TAPE PLAY (DECK B)
《 》: TAPE REC
* : Impossible to measure

4-14. PRINTED WIRING BOARDS – AMP/POWER SUPPLY Section –

• See page 11 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D001	D-11
D003	C-11
D004	E-12
D501	J-7
D502	J-7
D503	J-7
D504	J-8
D505	I-8
D506	H-7
D507	H-6
D508	I-6
D509	I-6
D511	H-7
D512	B-4
D513	B-4
D514	D-2
D516	B-1
D517	C-3
D518	B-1
D519	B-3
D520	E-4
D521	B-2
D525	A-2
D526	B-2
D527	K-7
D528	K-7
D529	H-8
D581	I-6
D599	H-8
IC501	F-4
IC502	F-6
Q001	C-12
Q002	D-12
Q501	G-6
Q502	G-6
Q503	J-5
Q504	J-5
Q505	D-2
Q507	D-2
Q508	D-2
Q509	B-1
Q510	B-2
Q511	C-4
Q512	B-4
Q513	C-7
Q514	C-8
Q515	C-2
Q516	D-4
Q517	D-2
Q518	C-2
Q519	C-2
Q520	B-2
Q521	I-2
Q522	I-2
Q523	H-5
Q581	J-6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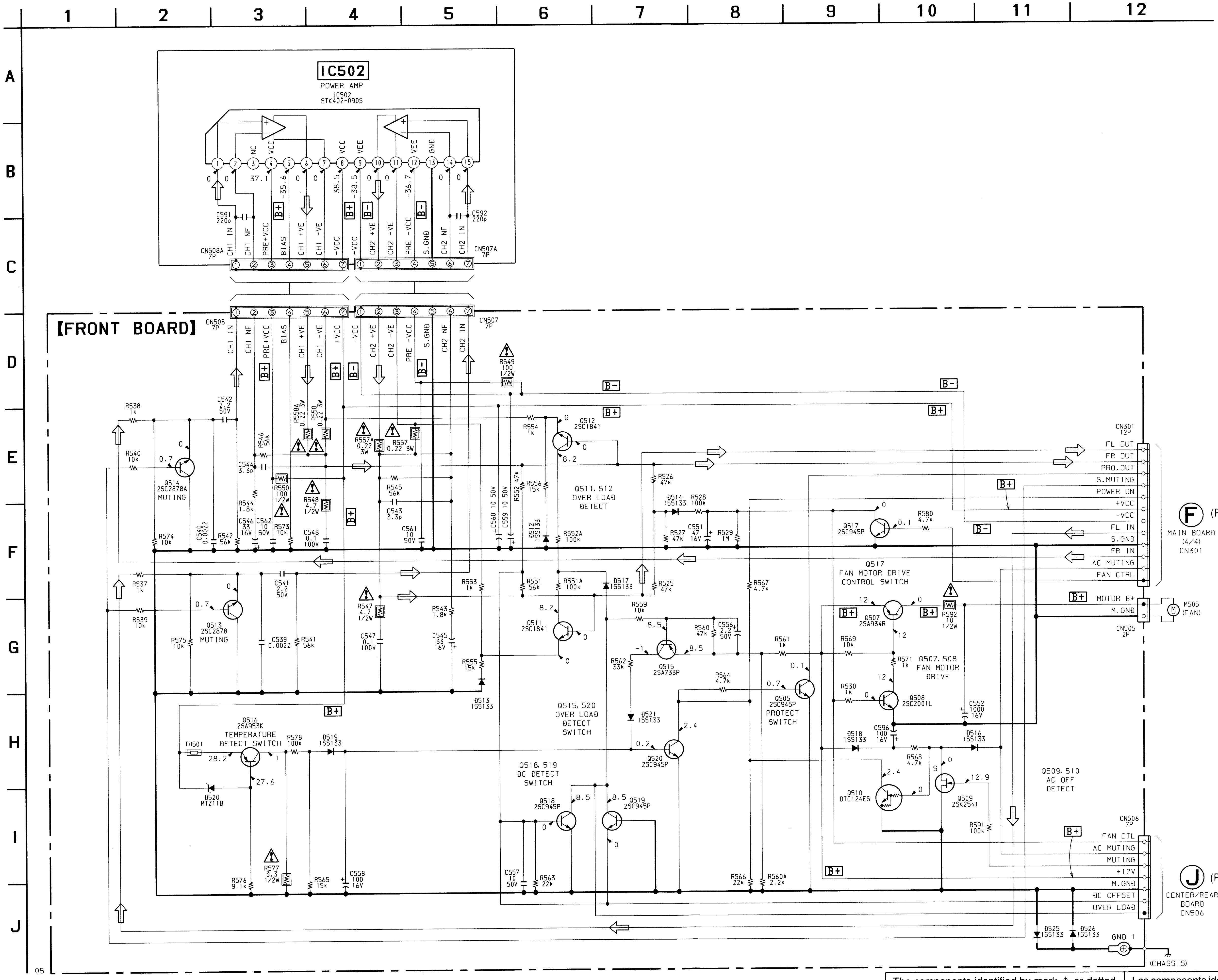
K
【FRONT BOARD】
(CHASSIS)
F
MAIN BOARD CN301
(Page 17)
CN505
M
M505 (FAN)
IC501
IC502
【BACK UP BOARD】
T001 POWER TRANSFORMER
H
MAIN BOARD CN502
(Page 17)
F001
F002
F003
F004
AC IN
(US, CND)
【CENTER/REAR BOARD】
G
MAIN BOARD CN305
(Page 17)
E
MAIN BOARD CN302
(Page 17)
(CHASSIS)
05

4-15. SCHEMATIC DIAGRAM – FRONT AMP Section –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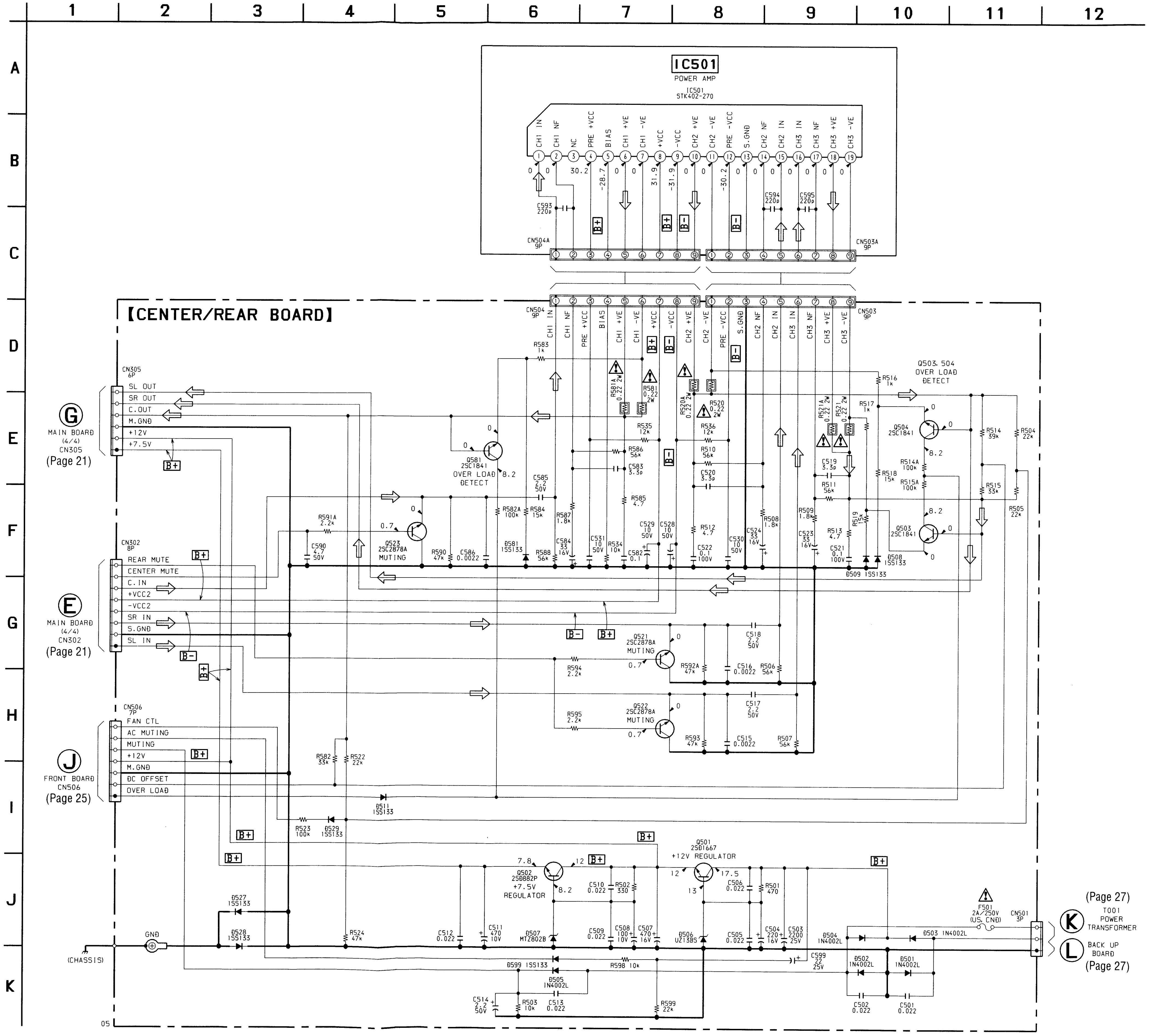
I
J
IC502
POWER AMP
IC502
STK402-090S
NC
VCC
VCC
VEE
VEE
GND
37.1
-35.6
38.5
-38.5
-36.7
C591
220p
C592
220p
CN508A
7P
CN507A
7P
CH1 IN
CH1 NF
PRE+VCC
BIAS
CH1 +VE
CH1 -VE
+VCC
-VCC
CH2 +VE
CH2 -VE
PRE -VCC
S.GND
CH2 NF
CH2 IN
B+
B-
[FRONT BOARD]
CN508
7P
CN507
7P
R549
100
1/2W
R538
1k
C542
2.2
50V
R540
10k
Q514
2SC2878A
MUTING
R546
56k
R558A
0.22 3W
R558
0.22 3W
R557A
0.22
3W
R557
0.22 3W
C544
3.3p
R550
100
1/2W
R548
4.7
1/2W
R545
56k
C543
3.3p
R544
1.8k
C546
33
16V
C562
10
50V
R573
10k
C548
0.1
100V
C561
10
50V
R574
10k
C540
0.0022
R542
56k
R554
1k
Q512
2SC1841
8.2
Q511, 512
OVER LOAD
DETECT
R556
15k
R552 47k
C560 10 50V
C559 10 50V
D512
1SS133
R552A
100k
R526
47k
D514
1SS133
R528
100k
C551
47
16V
R527
47k
R529
1M
Q517
2SC945P
R580
4.7k
Q517
FAN MOTOR DRIVE
CONTROL SWITCH
CN301
12P
FL OUT
FR OUT
PRO.OUT
S.MUTING
POWER ON
+VCC
-VCC
FL IN
S.GND
FR IN
AC MUTING
FAN CTRL
F
(Page 21)
MAIN BOARD
(4/4)
CN301
R537
1k
R539
10k
Q513
2SC2878
MUTING
C541
2.2
50V
R575
10k
C539
0.0022
R541
56k
R547
4.7
1/2W
C547
0.1
100V
R553
1k
R543
1.8k
C545
33
16V
R555
15k
D513
1SS133
R551
56k
R551A
100k
D517
1SS133
R525
47k
Q511
2SC1841
R559
10k
R560
47k
C556
2.2
50V
Q515
2SA733P
R562
33k
R564
4.7k
R567
4.7k
R561
1k
Q505
2SC945P
PROTECT
SWITCH
Q507
2SA934R
R592
10
1/2W
MOTOR B+
M.GND
M505
(FAN)
CN505
2P
R569
10k
R571
1k
Q507, 508
FAN MOTOR
DRIVE
R530
1k
Q508
2SC2001L
C552
1000
16V
Q516
2SA953K
TEMPERATURE
DETECT SWITCH
R578
100k
D519
1SS133
TH501
28.2
27.6
D520
MTZ11B
Q515, 520
OVER LOAD
DETECT
SWITCH
D521
1SS133
Q520
2SC945P
D518
1SS133
C596
100
16V
D516
1SS133
R568
4.7k
Q510
DTC124ES
Q509
2SK2541
12.9
Q509, 510
AC OFF
DETECT
Q518, 519
DC DETECT
SWITCH
Q518
2SC945P
Q519
2SC945P
R591
100k
CN506
7P
FAN CTL
AC MUTING
MUTING
+12V
M.GND
DC OFFSET
OVER LOAD
J
(Page 26)
CENTER/REAR
BOARD
CN506
R576
9.1k
R577
3.3
1/2W
R565
15k
C558
100
16V
C557
10
50V
R563
22k
R566
22k
R560A
2.2k
D525
1SS133
D526
1SS133
GND 1
(CHASSIS)
05

- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

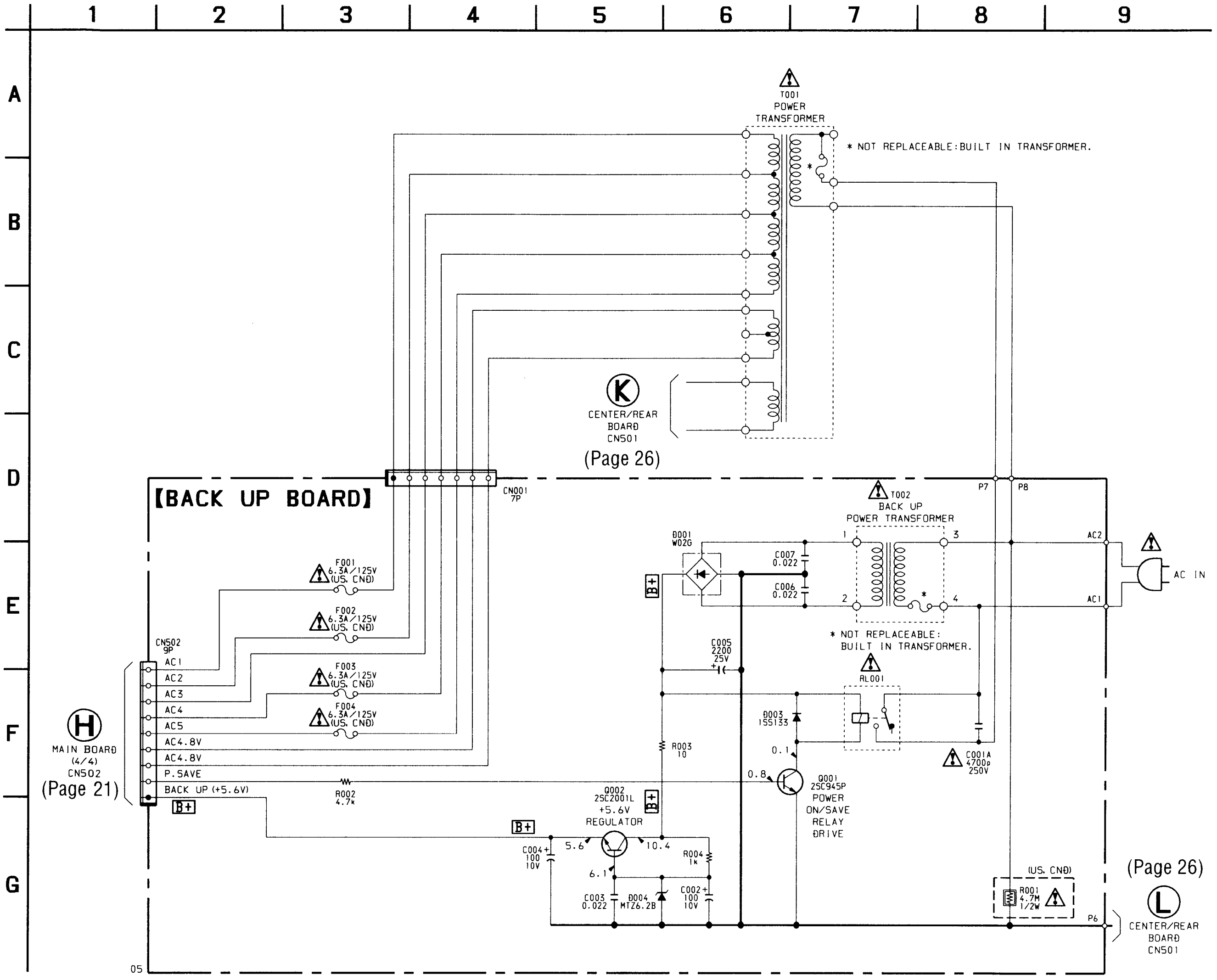
4-16. SCHEMATIC DIAGRAM – CENTER/REAR AMP Section –


1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
IC501
POWER AMP
IC501 STK402-270
CH1 IN
CH1 NF
NC
PRE +VCC
BIAS
CH1 +VE
CH1 -VE
+VCC
-VCC
CH2 +VE
CH2 -VE
PRE -VCC
S.GND
CH2 NF
CH2 IN
CH3 IN
CH3 NF
CH3 +VE
CH3 -VE
CN504A 9P
CN503A 9P
C593 220p
C594 220p
C595 220p
【CENTER/REAR BOARD】
CN504 9P
CN503 9P
CN305 6P
SL OUT
SR OUT
C.OUT
M.GND
+12V
+7.5V
MAIN BOARD (4/4) CN305
(Page 21)
CN302 8P
REAR MUTE
CENTER MUTE
C.IN
+VCC2
-VCC2
SR IN
S.GND
SL IN
MAIN BOARD (4/4) CN302
(Page 21)
CN506 7P
FAN CTL
AC MUTING
MUTING
+12V
M.GND
DC OFFSET
OVER LOAD
FRONT BOARD CN506
(Page 25)
Q581 2SC1841 OVER LOAD DETECT
Q523 2SC2878A MUTING
Q503, 504 OVER LOAD DETECT
Q504 2SC1841
Q503 2SC1841
Q521 2SC2878A MUTING
Q522 2SC2878A MUTING
Q502 2SD882P +7.5V REGULATOR
Q501 2SD1667 +12V REGULATOR
D507 MTZ8R2B
D506 UZ13BS
D505 1N4002L
D504 1N4002L
D503 1N4002L
D502 1N4002L
D501 1N4002L
D599 1SS133
D527 1SS133
D528 1SS133
D529 1SS133
D511 1SS133
D581 1SS133
D508 1SS133
D509 1SS133
F501 2A/250V (US, CND)
CN501 3P
GND
(CHASSIS)
(Page 27)
T001 POWER TRANSFORMER
BACK UP BOARD
(Page 27)
B+
B-

- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-17. SCHEMATIC DIAGRAM – POWER SUPPLY Section –


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
T001
POWER
TRANSFORMER
* NOT REPLACEABLE:BUILT IN TRANSFORMER.
K
CENTER/REAR
BOARD
CN501
(Page 26)
[BACK UP BOARD]
CN001
7P
F001
6.3A/125V
(US. CND)
F002
6.3A/125V
(US. CND)
F003
6.3A/125V
(US. CND)
F004
6.3A/125V
(US. CND)
CN502
9P
AC1
AC2
AC3
AC4
AC5
AC4.8V
AC4.8V
P.SAVE
BACK UP (+5.6V)
B+
H
MAIN BOARD
(4/4)
CN502
(Page 21)
R002
4.7k
D001
W02G
B+
C007
0.022
C006
0.022
T002
BACK UP
POWER TRANSFORMER
1
2
3
4
*
* NOT REPLACEABLE:
BUILT IN TRANSFORMER.
P7
P8
AC2
AC1
AC IN
C005
2200
25V
RL001
D003
1SS133
R003
10
0.1
0.8
Q001
2SC945P
POWER
ON/SAVE
RELAY
DRIVE
C001A
4700p
250V
Q002
2SC2001L
+5.6V
REGULATOR
B+
B+
5.6
10.4
6.1
C004
100
10V
R004
1k
C003
0.022
D004
MTZ6.2B
C002
100
10V
(US. CND)
R001
4.7M
1/2W
P6
(Page 26)
L
CENTER/REAR
BOARD
CN501
05

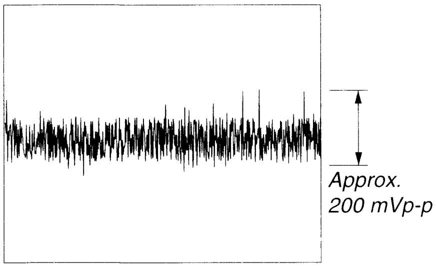
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

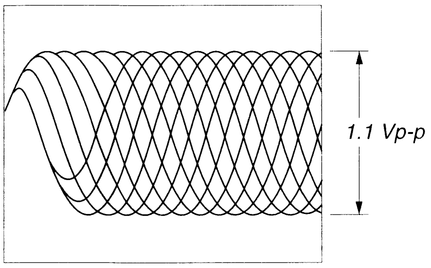
- **Waveforms**

– DECORD Board –

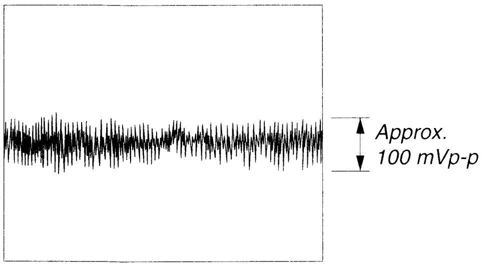
❶ IC701 ① (FEO) (CD Play Mode)



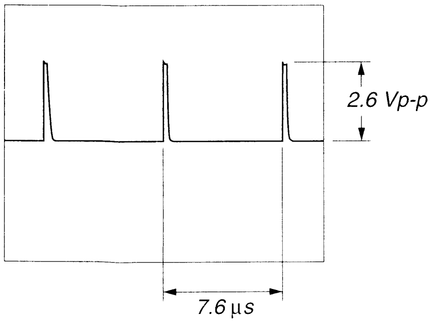
❷ IC701 ㉝ (RF O), IC702 ㉟ (RF)
(CD Play Mode)



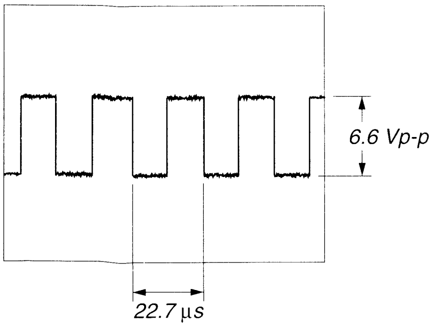
❸ IC701 ㊺ (TEO) (CD Play Mode)



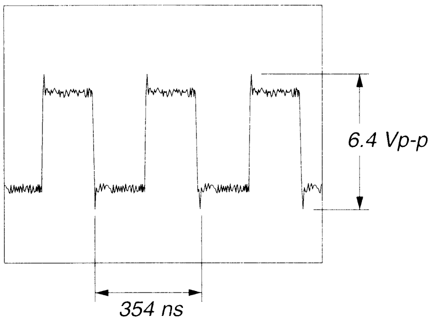
❹ IC702 ㉑ (MDP) (CD Play Mode)



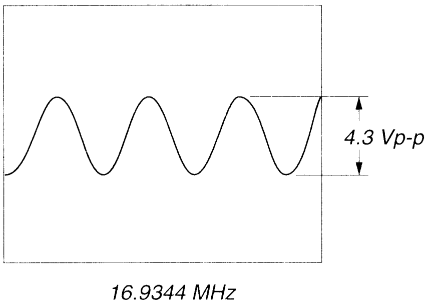
❺ IC702 ㉞ (LRCK) (CD Play Mode)



❻ IC702 ㊸ (BCK) (CD Play Mode)

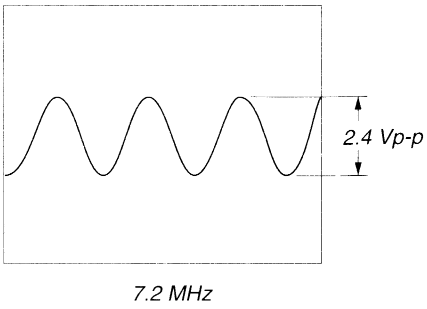


❼ IC702 (70) (XTAI)

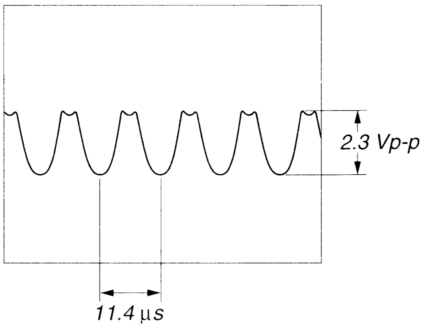


– MAIN Board –

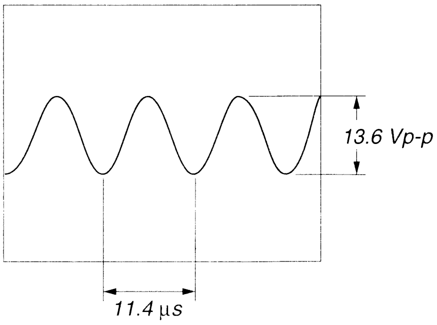
❶ IC103 ① (XIN)



❷ Q251 (Base) (Tape Rec Mode)

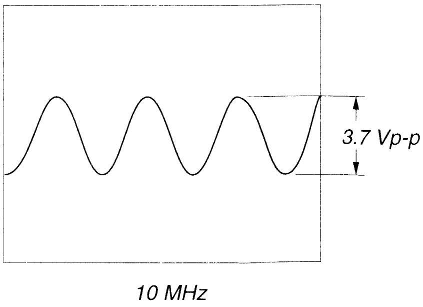


❸ Q251 (Collector) (Tape Rec Mode)



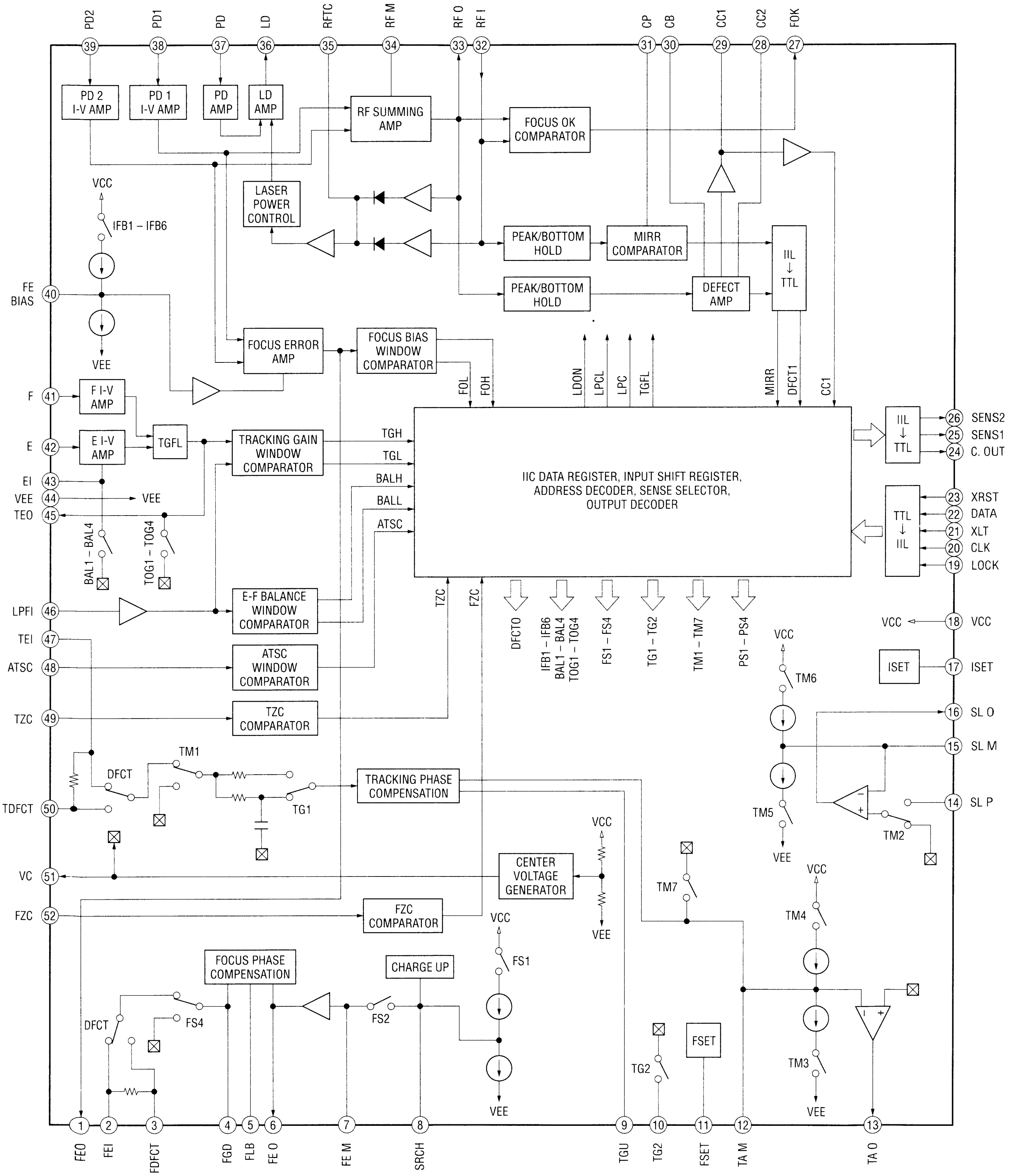
– PANEL Board –

❶ IC601 ㊴ (X'TAL)



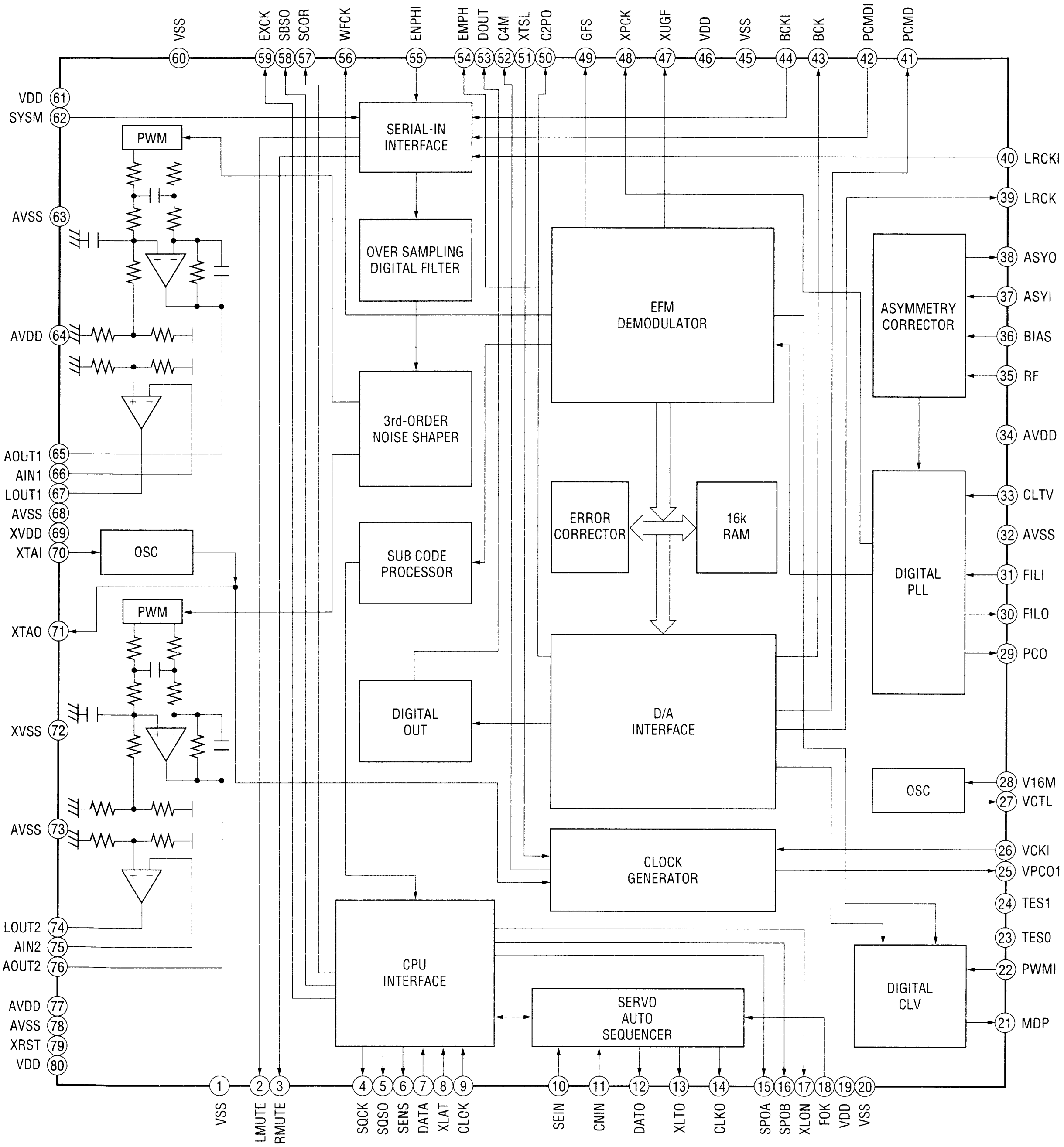
• IC Block Diagrams
– DECORD Board –

IC701 CXA1992BR



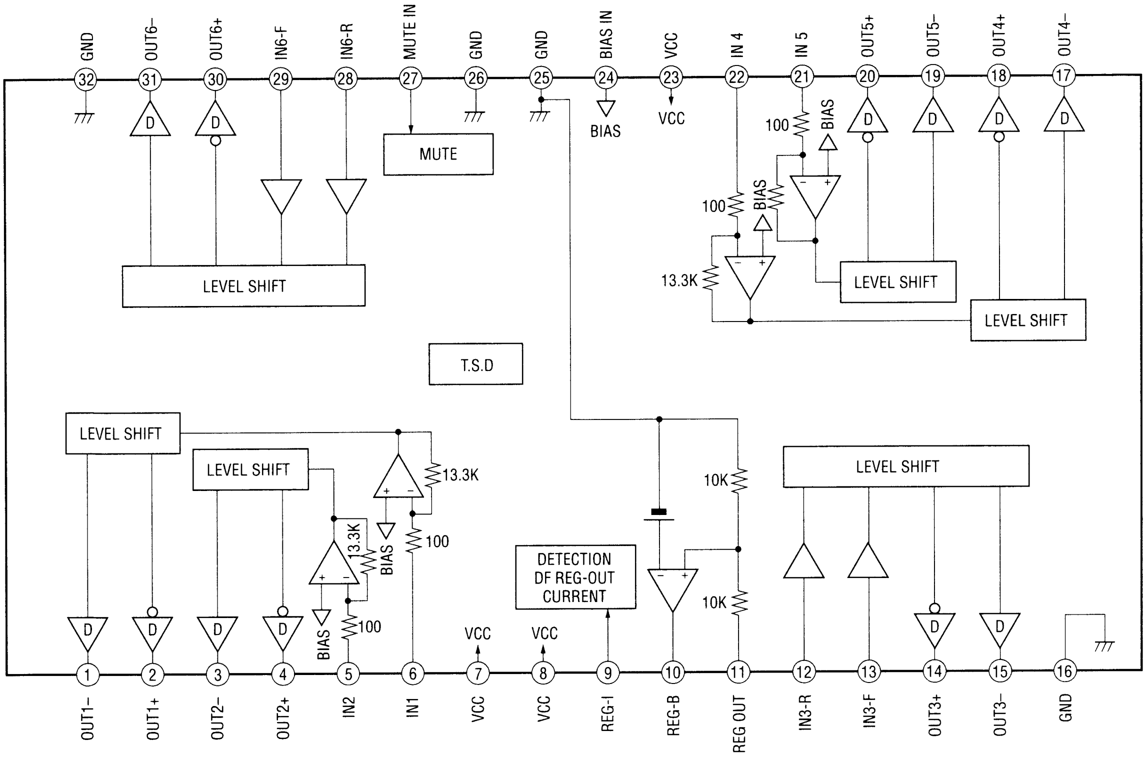
PD2
PD1
PD
LD
RFTC
RF M
RF O
RF I
CP
CB
CC1
CC2
FOK
PD 2 I-V AMP
PD 1 I-V AMP
PD AMP
LD AMP
RF SUMMING AMP
FOCUS OK COMPARATOR
LASER POWER CONTROL
PEAK/BOTTOM HOLD
MIRR COMPARATOR
PEAK/BOTTOM HOLD
DEFECT AMP
IIL ↓ TTL
VCC
IFB1 – IFB6
FE BIAS
VEE
FOCUS ERROR AMP
FOCUS BIAS WINDOW COMPARATOR
FOL
FOH
LDON
LPCL
LPC
TGFL
MIRR
DFCT1
CC1
F
F I-V AMP
E
E I-V AMP
TGFL
TRACKING GAIN WINDOW COMPARATOR
TGH
TGL
BALH
BALL
ATSC
IIC DATA REGISTER, INPUT SHIFT REGISTER, ADDRESS DECODER, SENSE SELECTOR, OUTPUT DECODER
IIL ↓ TTL
SENS2
SENS1
C. OUT
TTL ↓ IIL
XRST
DATA
XLT
CLK
LOCK
EI
VEE
TEO
BAL1 – BAL4
TOG1 – TOG4
LPFI
E-F BALANCE WINDOW COMPARATOR
TZC
FZC
DFCTO
IFB1 – IFB6 BAL1 – BAL4 TOG1 – TOG4
FS1 – FS4
TG1 – TG2
TM1 – TM7
PS1 – PS4
VCC
VCC
TEI
ATSC
ATSC WINDOW COMPARATOR
ISET
ISET
TM6
TZC
TZC COMPARATOR
SL O
SL M
TM1
DFCT
TRACKING PHASE COMPENSATION
TG1
TDFCT
TM5
SL P
TM2
VEE
VCC
VC
CENTER VOLTAGE GENERATOR
TM7
VCC
FZC
FZC COMPARATOR
VCC
TM4
VEE
FOCUS PHASE COMPENSATION
CHARGE UP
FS1
DFCT
FS4
FS2
TG2
FSET
TM3
VEE
VEE
FEO
FEI
FDFCT
FGD
FLB
FE O
FE M
SRCH
TGU
TG2
FSET
TA M
TA O

IC702 CXD2589Q



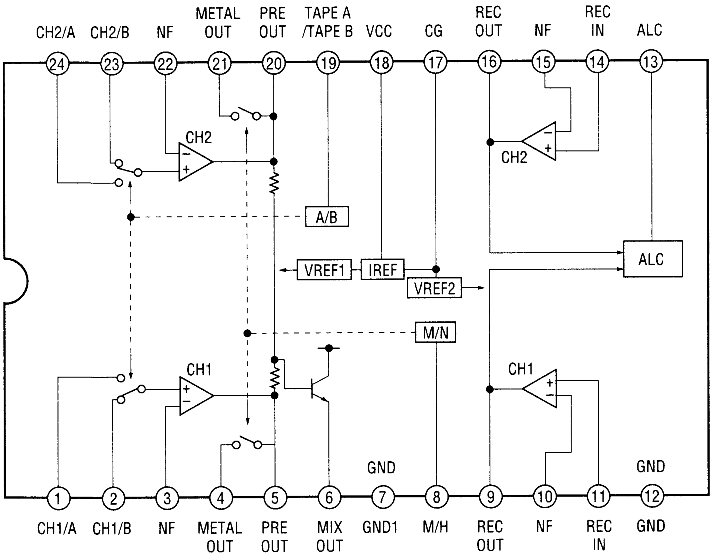
VSS 60
EXCK 59
SBSO 58
SCOR 57
WFCK 56
ENPHI 55
EMPH 54
DOUT 53
C4M 52
XTSL 51
C2PO 50
GFS 49
XPCK 48
XUGF 47
VDD 46
VSS 45
BCKI 44
BCK 43
PCMDI 42
PCMD 41
VDD 61
SYSM 62
AVSS 63
AVDD 64
AOUT1 65
AIN1 66
LOUT1 67
AVSS 68
XVDD 69
XTAI 70
XTAO 71
XVSS 72
AVSS 73
LOUT2 74
AIN2 75
AOUT2 76
AVDD 77
AVSS 78
XRST 79
VDD 80
40 LRCKI
39 LRCK
38 ASYO
37 ASYI
36 BIAS
35 RF
34 AVDD
33 CLTV
32 AVSS
31 FILI
30 FILO
29 PCO
28 V16M
27 VCTL
26 VCKI
25 VPCO1
24 TES1
23 TES0
22 PWMI
21 MDP
1 VSS
2 LMUTE
3 RMUTE
4 SQCK
5 SQSO
6 SENS
7 DATA
8 XLAT
9 CLCK
10 SEIN
11 CNIN
12 DATO
13 XLTO
14 CLKO
15 SPOA
16 SPOB
17 XLON
18 FOK
19 VDD
20 VSS
PWM
SERIAL-IN INTERFACE
OVER SAMPLING DIGITAL FILTER
3rd-ORDER NOISE SHAPER
SUB CODE PROCESSOR
DIGITAL OUT
CPU INTERFACE
SERVO AUTO SEQUENCER
EFM DEMODULATOR
ERROR CORRECTOR
16k RAM
D/A INTERFACE
CLOCK GENERATOR
ASYMMETRY CORRECTOR
DIGITAL PLL
OSC
DIGITAL CLV
PWM
OSC

IC703 BA5936S

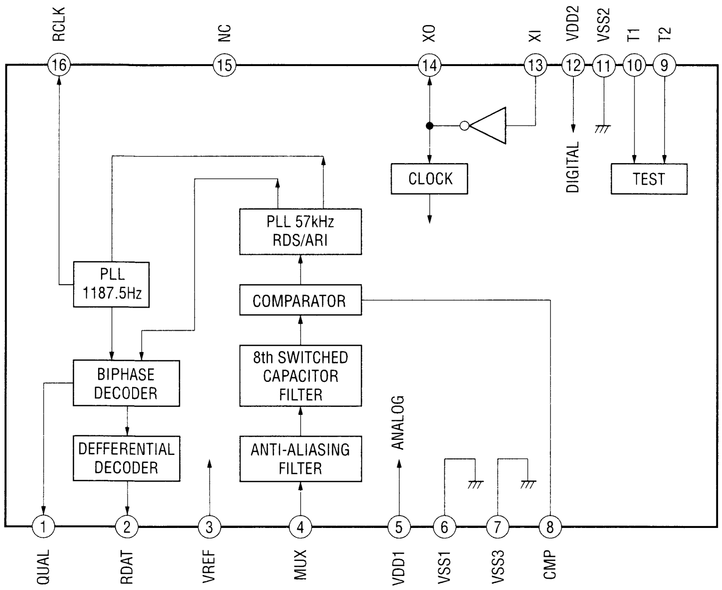

GND
OUT6−
OUT6+
IN6-F
IN6-R
MUTE IN
GND
GND
BIAS IN
VCC
IN 4
IN 5
OUT5+
OUT5−
OUT4+
OUT4−
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
BIAS
VCC
MUTE
100
BIAS
100
BIAS
13.3K
D
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
T.S.D
LEVEL SHIFT
LEVEL SHIFT
13.3K
13.3K
BIAS
100
BIAS
100
10K
10K
LEVEL SHIFT
DETECTION
DF REG-OUT
CURRENT
VCC
VCC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
OUT1−
OUT1+
OUT2−
OUT2+
IN2
IN1
VCC
VCC
REG-I
REG-B
REG OUT
IN3-R
IN3-F
OUT3+
OUT3−
GND

– MAIN Board –

IC201 TA8189N

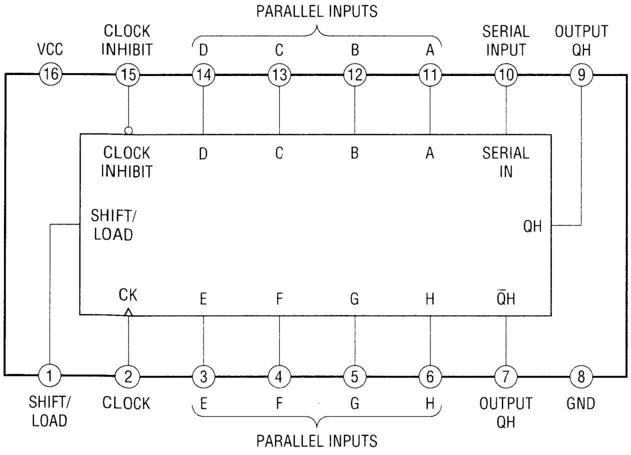

CH2/A
CH2/B
NF
METAL OUT
PRE OUT
TAPE A /TAPE B
VCC
CG
REC OUT
NF
REC IN
ALC
24
23
22
21
20
19
18
17
16
15
14
13
CH2
CH2
A/B
VREF1
IREF
VREF2
ALC
M/N
CH1
CH1
GND
GND
1
2
3
4
5
6
7
8
9
10
11
12
CH1/A
CH1/B
NF
METAL OUT
PRE OUT
MIX OUT
GND1
M/H
REC OUT
NF
REC IN
GND

IC101A BU1923F (AEP, UK models)

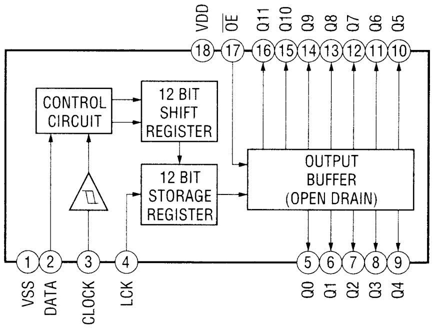

RCLK
NC
XO
XI
VDD2
VSS2
T1
T2
16
15
14
13
12
11
10
9
CLOCK
DIGITAL
TEST
PLL 57kHz
RDS/ARI
PLL
1187.5Hz
COMPARATOR
BIPHASE
DECODER
8th SWITCHED
CAPACITOR
FILTER
ANALOG
DEFFERENTIAL
DECODER
ANTI-ALIASING
FILTER
1
2
3
4
5
6
7
8
QUAL
RDAT
VREF
MUX
VDD1
VSS1
VSS3
CMP

– PANEL Board –

IC603 TC74HC165AP


PARALLEL INPUTS
VCC
CLOCK
INHIBIT
D
C
B
A
SERIAL
INPUT
OUTPUT
QH
16
15
14
13
12
11
10
9
CLOCK
INHIBIT
D
C
B
A
SERIAL
IN
SHIFT/
LOAD
QH
CK
E
F
G
H
Q̄H
1
2
3
4
5
6
7
8
SHIFT/
LOAD
CLOCK
E
F
G
H
OUTPUT
QH
GND
PARALLEL INPUTS

IC901 BU2092


VDD
ŌE
Q11
Q10
Q9
Q8
Q7
Q6
Q5
18
17
16
15
14
13
12
11
10
CONTROL
CIRCUIT
12 BIT
SHIFT
REGISTER
OUTPUT
BUFFER
(OPEN DRAIN)
12 BIT
STORAGE
REGISTER
1
2
3
4
5
6
7
8
9
VSS
DATA
CLOCK
LCK
Q0
Q1
Q2
Q3
Q4

SECTION 5
EXPLODED VIEWS

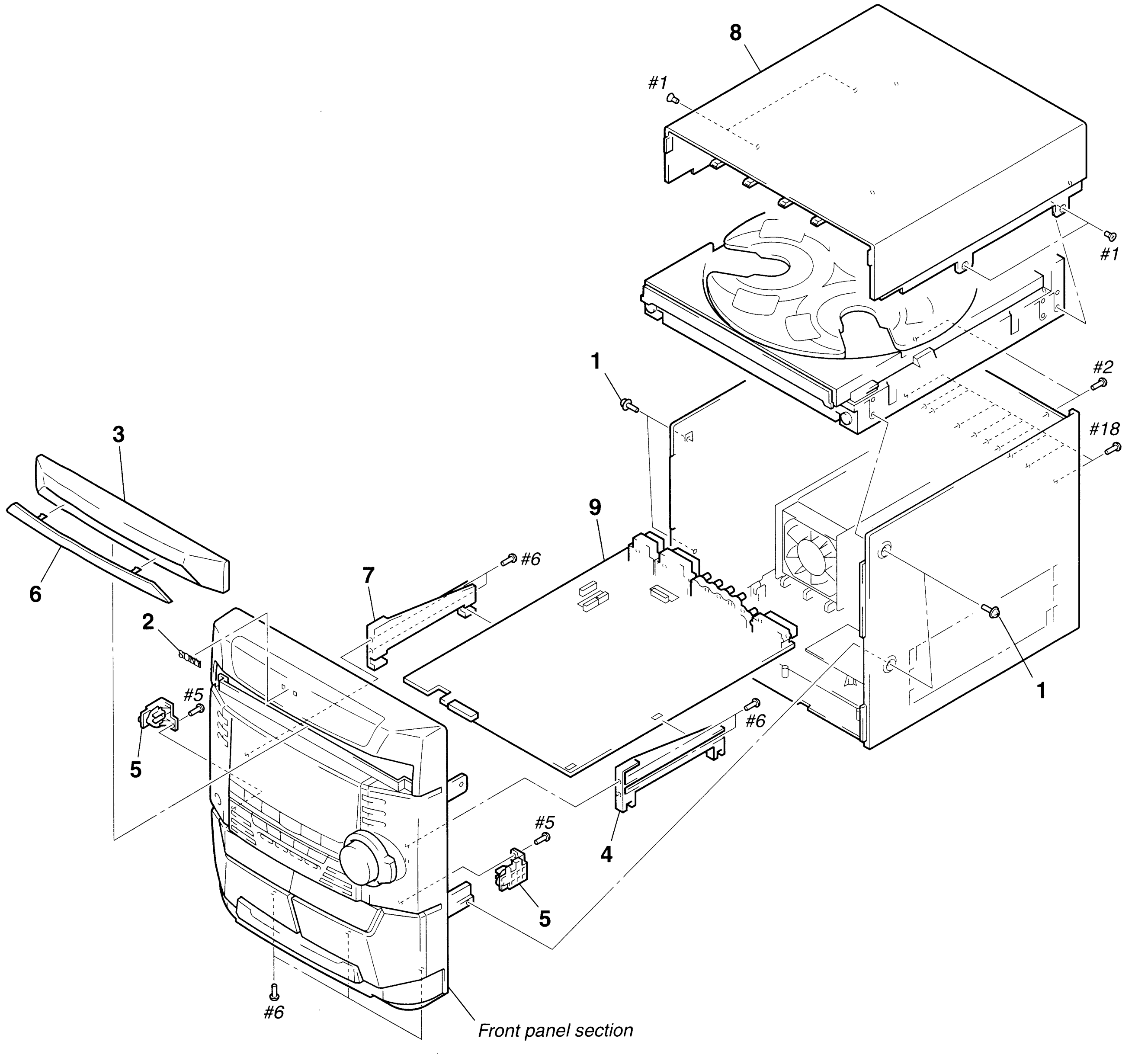
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  CND : Canadian model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

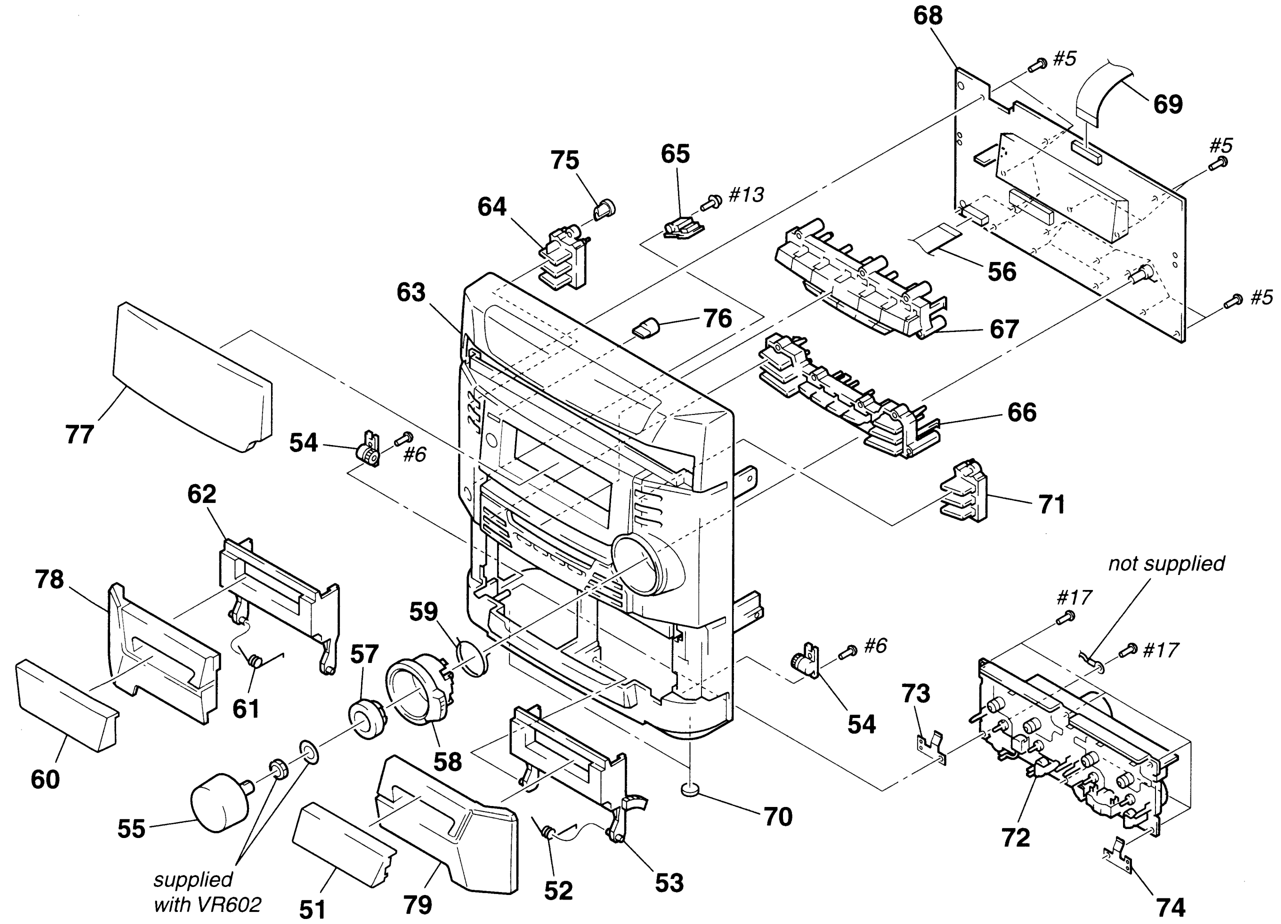
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(1) TOP CABINET SECTION



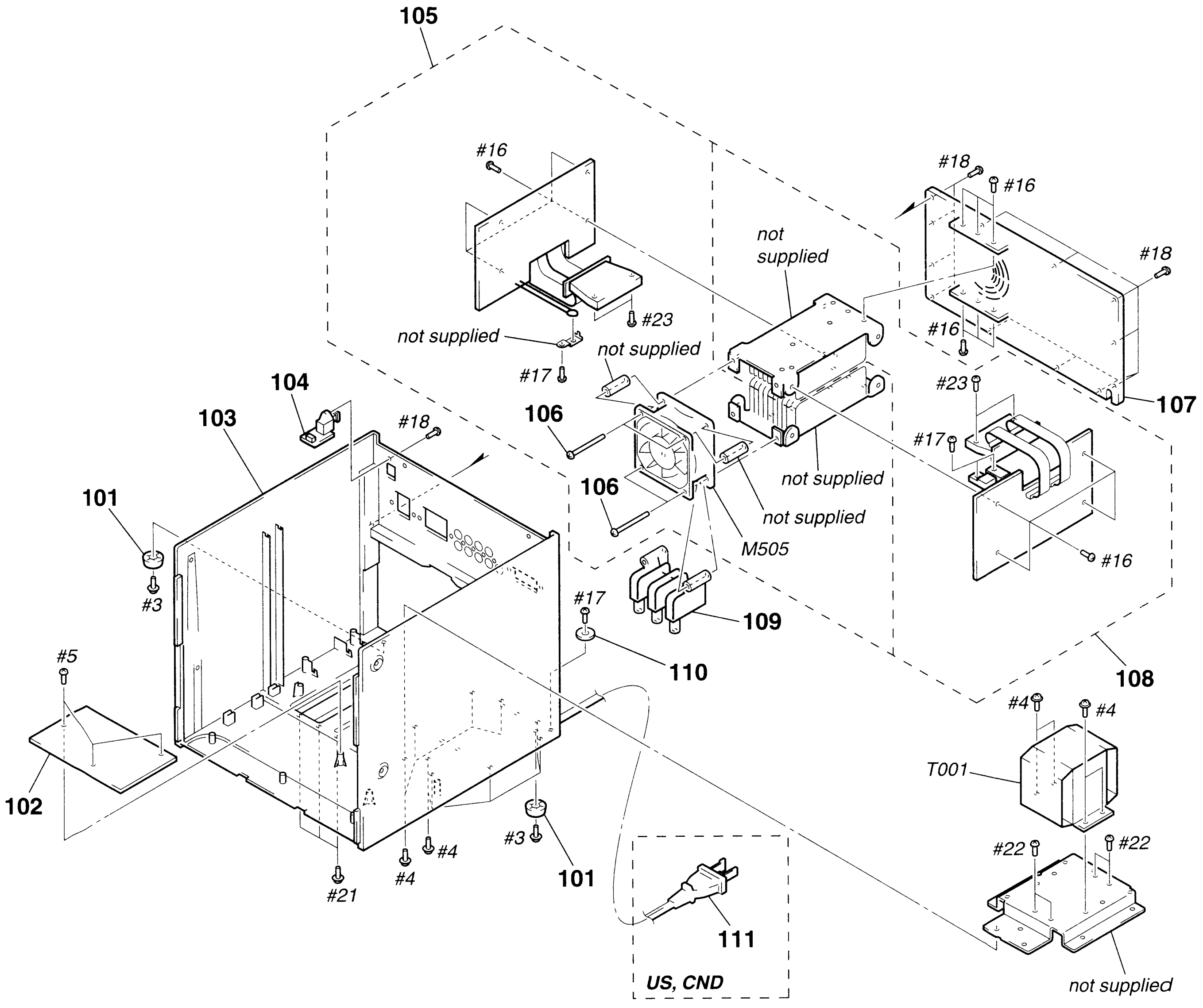
Ref. No.	Part No.	Description	Remark
1	3-703-136-21	SCREW (M3X12)	
2	4-229-459-01	EMBLEM	
3	4-230-489-01	DOOR, CD	
4	4-230-501-01	HOLDER (R), MAIN PC BOARD	
5	4-229-451-01	HOLDER (A), EJECT	
6	4-229-473-01	PLATE, CD DOOR	
7	4-230-502-01	HOLDER (L), MAIN PC BOARD	
8	4-229-452-01	CABINET, TOP	
9	A-4475-116-A	MAIN BOARD, COMPLETE (US, CND)	

(2) FRONT PANEL SECTION


68
#5
69
#5
75
65
#13
64
56
63
76
67
#5
77
54
#6
66
62
71
78
not supplied
#17
59
57
#6
#17
73
54
61
58
60
70
72
55
53
52
74
supplied
with VR602
51
79

Ref. No.	Part No.	Description	Remark
51	4-229-457-01	WINDOW (R), CASSETTE	
52	4-229-464-01	SPRING (B), EJECT	
53	4-229-460-01	HOLDER (R), CASSETTE	
54	4-220-622-01	DAMPER (GRY), GEAR	
55	4-229-477-01	KNOB (A), VOLUME	
56	1-792-850-11	WIRE (FLAT TYPE) (16 CORE)	
57	4-230-493-01	HOLDER, VOL	
58	4-229-478-01	KNOB (B), VOLUME (◀◀ ▶▶)	
59	4-229-496-01	JOG, SPRING	
60	4-229-458-01	WINDOW (L), CASSETTE	
61	4-229-463-01	SPRING (A), EJECT	
62	4-229-461-01	HOLDER (L), CASSETTE	
63	4-230-495-01	PANEL, FRONT	
64	4-229-474-01	BUTTON, POWER (I/⏻. DISPLAY. SPECTRUM)	
65	A-4475-119-A	H/P BOARD, COMPLETE	
66	4-229-479-01	BUTTON, CD FUNCTION (GROOVE. FILE SELECT. ENTER. REC. REC PAUSE. CD SYNC)	
67	4-230-496-01	BUTTON, FUNCTION (- ⏮. ■. ◁ ▷. II. ⏭ +. DISC SKIP EX-CHANGE. DISC 1. DISC 2. DISC 3. ⏏ OPEN/CLOSE)	
68	A-4424-891-A	PANEL BOARD, COMPLETE	
69	1-769-273-11	WIRE (FLAT TYPE) (22 CORE)	
70	4-230-500-01	RUBBER, FOOT	
71	4-229-475-01	BUTTON, PLAY MODE (PLAY MODE. REPEAT. EDIT)	
72	1-772-164-11	DECK, MECH (CWL-44-RR)	
73	4-229-494-01	SPRING (L), PUSHING	
74	4-229-492-01	SPRING (R), PUSHING	
75	4-229-476-01	LENS (POWER)	
76	4-229-481-01	LENS (TIME)	
77	4-230-490-01	WINDOW, DISPLAY	
78	4-230-491-01	DOOR (L), CASSETTE	
79	4-229-455-01	DOOR (R), CASSETTE	

(3) BOTTOM CABINET SECTION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#16
#18
#16
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#18
#23
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#17
#23
107
104
#17
103
#18
106
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101
106
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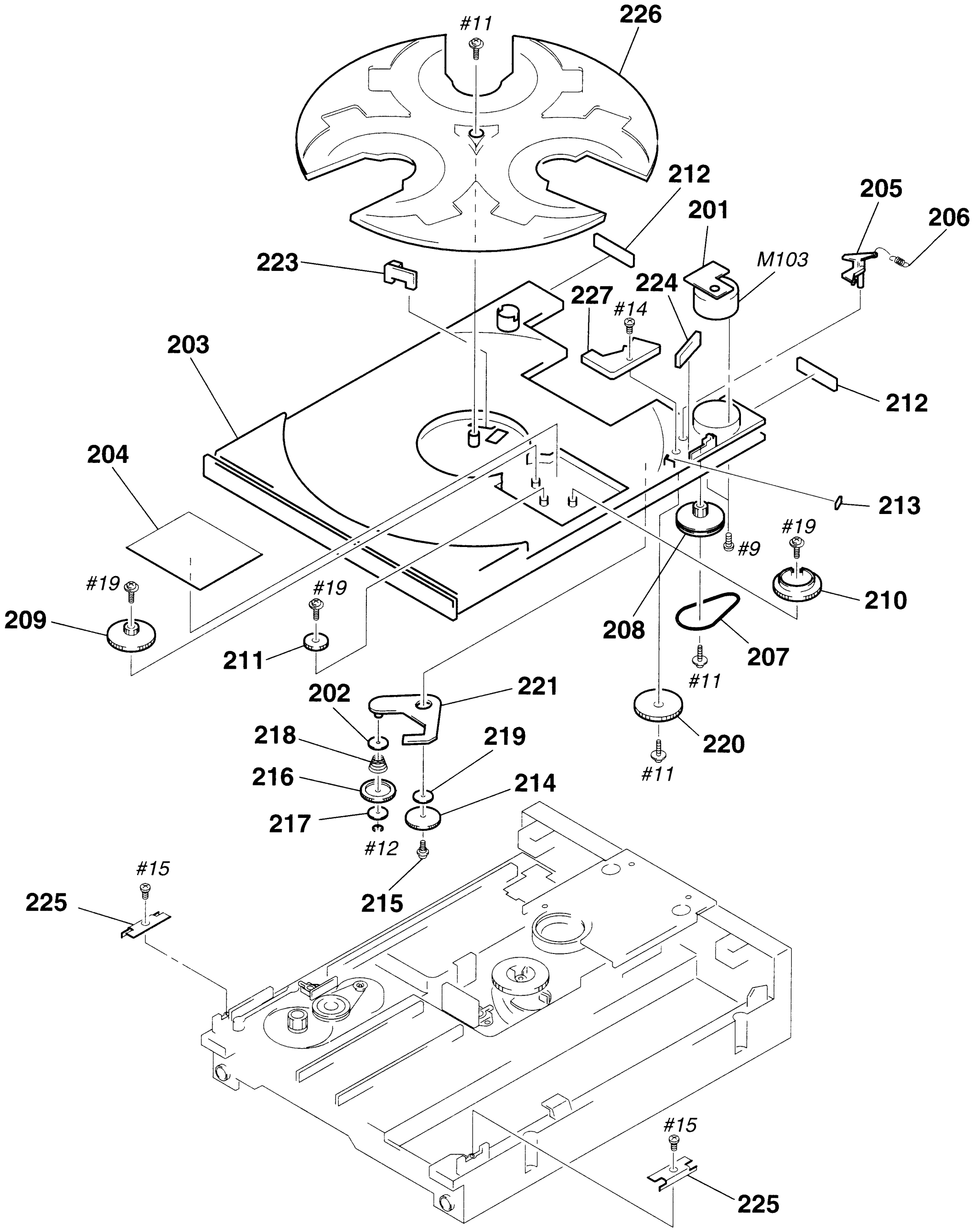
M505
#3
#17
109
#5
110
108
#4
#4
T001
102
#22
#22
#3
#4
#4
101
#21
111
US, CND
not supplied

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	4-230-507-01	FOOT (B)	
102	A-4475-115-A	BACK UP BOARD, COMPLETE (US, CND)	
103	4-230-504-01	CABINET, BOTTOM	
104	A-4473-612-A	PHOTO SOCKET BOARD, COMPLETE	
105	A-4475-113-A	FRONT BOARD, COMPLETE	
106	4-230-508-01	SCREW (3X30)	
107	4-230-505-01	COVER, REAR	
108	A-4475-114-A	CENTER/REAR BOARD, COMPLETE (US, CND)	
109	4-230-494-01	HOLDER, MAIN CHASSIS	
110	4-229-497-01	WASHER, AC CORD	
⚠111	1-783-531-51	CORD, POWER (US, CND)	
M505	1-763-410-11	FAN, DC	
⚠T001	1-435-714-11	TRANSFORMER, POWER (US, CND)	

(4) CD MECHANISM DECK SECTION-1
(EXL-M7)



#11
226
212
205
201
206
M103
223
227
224
#14
203
212
204
213
#19
#9
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210
#19
209
208
207
211
#11
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#12
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#11
#15
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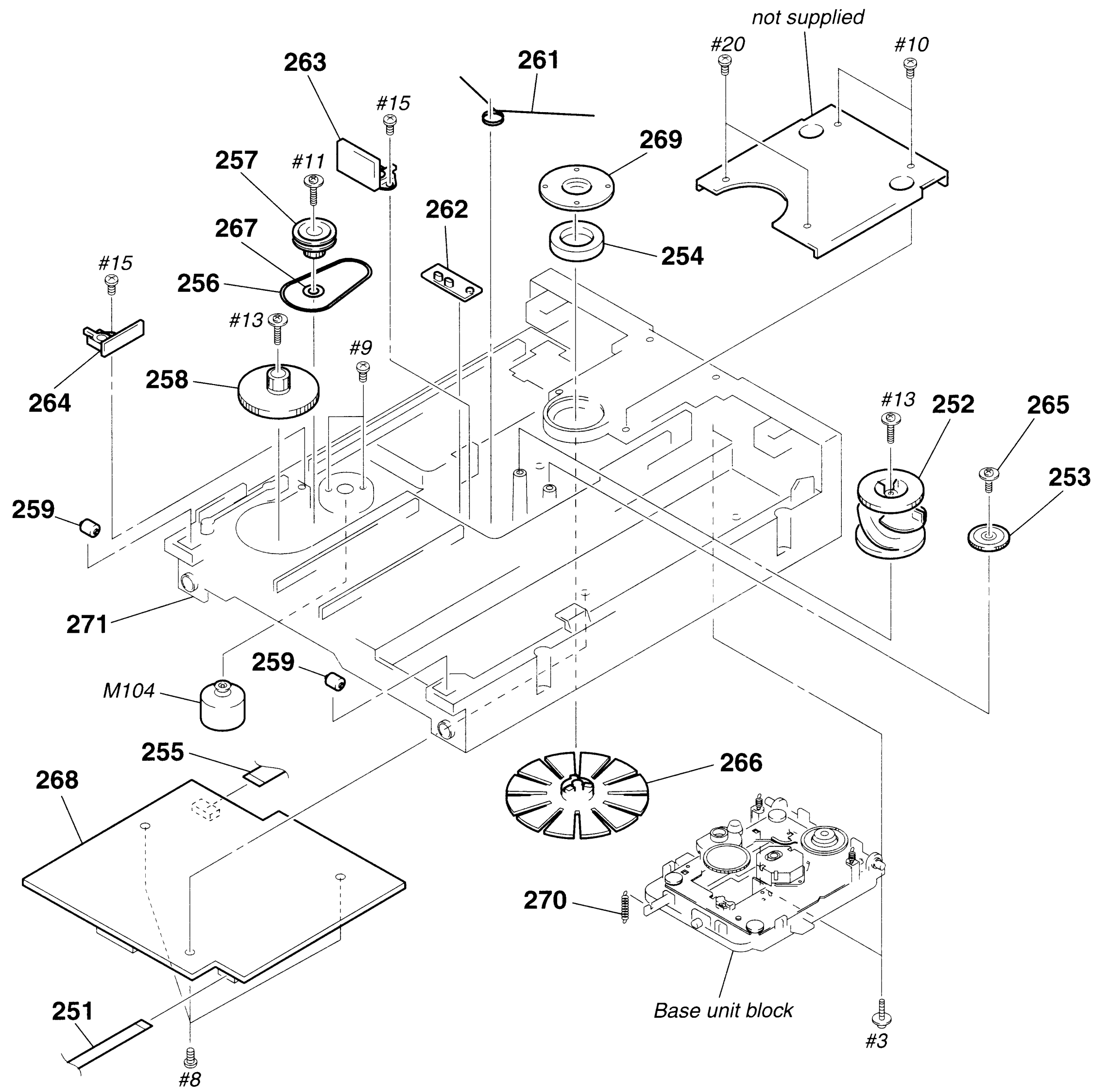
215
#15
225

Ref. No.	Part No.	Description	Remark
201	1-674-792-11	MOTOR BOARD	
202	4-229-502-01	PLATE (A), CHANGER	
203	4-229-503-01	BASE, CHANGER	
204	4-221-895-01	SHEET, BLIND	
205	4-221-896-01	LEVER, SENSOR SW	
206	4-992-182-01	SPRING, SENSOR (SW) LEVER	
207	4-992-170-01	BELT, LOADING	
208	4-992-171-01	PULLEY, GEAR	
209	4-221-894-01	GEAR, TR	
210	4-229-504-01	GEAR, TR LOCK	
211	4-221-893-01	GEAR (C), RELAY	
212	4-992-187-01	CUSHION	
213	4-992-186-01	CUSHION, SW LEVER	
214	4-992-173-01	GEAR (B), RELAY	
215	4-992-183-01	SCREW, RELAY GEAR (B)	
216	4-992-174-01	GEAR, CHANGE	
217	4-992-184-01	WASHER, CHANGE GEAR	
218	4-229-505-01	SPRING, CHANGE GEAR	
219	4-992-185-01	WASHER, CHANGE PLATE	
220	4-992-172-01	GEAR (A), RELAY	
221	4-221-902-01	PLATE, T/T	
223	1-674-789-11	SW B BOARD	
224	1-674-788-11	SW A BOARD	
225	4-229-499-01	GUIDE, RAIL	
226	4-229-529-01	TABLE, TURN	
227	4-229-500-01	PROTECTOR, TURN TABLE	
M103	X-4948-765-1	MOTOR ASSY (DISC TABLE TURN)	

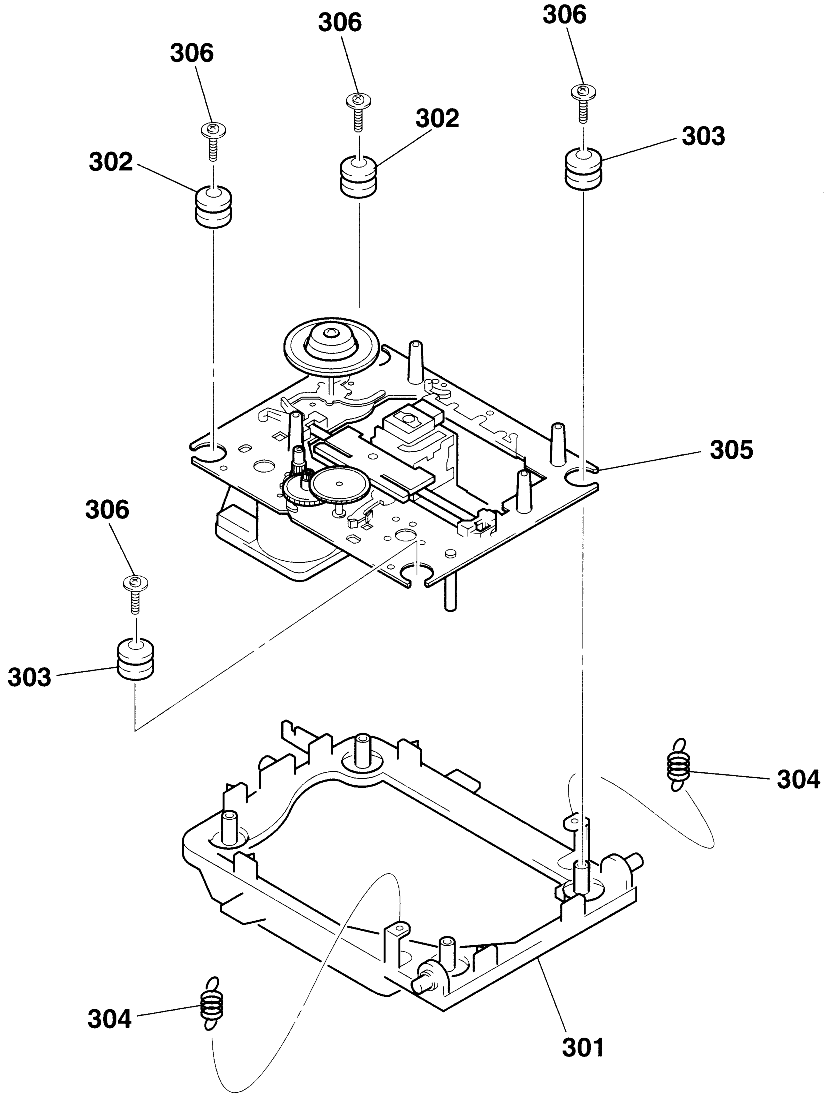
(5) CD MECHANISM DECK SECTION-2 (EXL-M7)



not supplied
#20
#10
263
261
#15
269
257
#11
262
267
254
#15
256
#13
#9
264
258
#13
252
265
253
259
271
259
M104
255
268
266
270
Base unit block
251
#8
#3

Ref. No.	Part No.	Description	Remark
251	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)	
252	4-221-897-01	CAM, UD	
253	4-992-191-01	UD-GEAR	
254	4-992-195-01	MAGNET	
255	1-775-133-11	WIRE (FLAT TYPE) (15 CORE)	
256	4-992-197-01	BELT, LOADING GEAR	
257	4-992-198-01	PULLEY (B), GEAR	
258	4-992-199-01	GEAR, SLIDE	
259	4-992-200-01	ROLLER	
261	4-992-192-01	SPRING, BRAKE CAM	
262	4-992-193-01	LEVER, SW	
263	1-674-791-11	SW D BOARD	
264	1-674-790-11	SW C BOARD	
265	4-229-512-01	SCREW, FLANGE	
266	4-229-509-01	HOLDER, MAGNET	
267	4-229-511-01	WASHER, POLYETHYLENE	
268	A-4473-611-A	DECORD BOARD, COMPLETE	
269	4-221-900-01	COVER, MAGNET	
270	4-221-903-01	SPRING, MECHANICAL BASE	
271	4-229-510-01	CHASSIS, MAIN	
M104	X-4948-766-1	MOTOR ASSY (A) (DISC TRAY SLIDE)	

(6) CD MECHANISM DECK SECTION-3
(EXL-M7)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
301	4-229-508-01	BASE, KSM MECHANICAL	
302	4-992-165-01	DAMPER (GREEN)	
303	4-992-166-01	DAMPER (RED)	
304	4-992-167-01	SPRING, MECHANICAL BASE	
⚠305	1-772-651-11	OPTICAL PICK-UP ASSY	
306	3-319-501-51	SCREW (+ PTPWH) (2.6X16)	

BACK UP

CENTER/REAR

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CND : Canadian model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4475-115-A	BACK UP BOARD, COMPLETE (US, CND)			
		************************			
*	1-533-213-31	HOLDER, FUSE			
		< CAPACITOR >			
C002	1-104-665-11	ELECT	100uF	20%	10V
C003	1-161-494-00	CERAMIC	0.022uF		25V
C004	1-104-665-11	ELECT	100uF	20%	10V
C005	1-126-943-11	ELECT	2200uF	20%	25V
C006	1-161-494-00	CERAMIC	0.022uF		25V
C007	1-161-494-00	CERAMIC	0.022uF		25V
⚠C001A	1-113-924-11	CERAMIC	0.0047uF	20%	250V
		< CONNECTOR >			
* CN001	1-564-510-11	PLUG, CONNECTOR 7P			
		< DIODE >			
D001	8-719-067-67	DIODE W02G			
D003	8-719-911-19	DIODE 1SS133T-72			
D004	8-719-010-44	DIODE UZ-6.2BS			
		< FUSE >			
⚠F001	1-576-193-11	FUSE (6.3A/125V)			
⚠F002	1-576-193-11	FUSE (6.3A/125V)			
⚠F003	1-576-193-11	FUSE (6.3A/125V)			
⚠F004	1-576-193-11	FUSE (6.3A/125V)			
		< TRANSISTOR >			
Q001	8-729-194-57	TRANSISTOR 2SC945TP-P			
Q002	8-729-142-46	TRANSISTOR 2SC2001-L			
		< RESISTOR >			
⚠R001	1-219-238-11	SOLID	4.7M	20%	1/2W F (US, CND)
R002	1-247-847-11	CARBON	4.7K	5%	1/4W
R003	1-247-688-11	CARBON	10	5%	1/4W
R004	1-249-417-11	CARBON	1K	5%	1/4W
		< RELAY >			
⚠RL001	1-515-999-11	RELAY, POWER			

Ref. No.	Part No.	Description			Remark
		< TRANSFORMER >			
⚠T002	1-435-612-11	TRANSFORMER, POWER			
**					
	A-4475-114-A	CENTER/REAR BOARD, COMPLETE (US, CND)			
		****************************			
*	1-533-213-31	HOLDER, FUSE			
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 SLIT			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT			
	7-685-649-79	SCREW +BVTP 3X14 TYPE2 SLIT			
		< CAPACITOR >			
C501	1-161-494-00	CERAMIC	0.022uF		25V
C502	1-161-494-00	CERAMIC	0.022uF		25V
C503	1-126-943-11	ELECT	2200uF	20%	25V
C504	1-126-934-11	ELECT	220uF	20%	16V
C505	1-161-494-00	CERAMIC	0.022uF		25V
C506	1-161-494-00	CERAMIC	0.022uF		25V
C507	1-126-935-11	ELECT	470uF	20%	16V
C508	1-104-665-11	ELECT	100uF	20%	10V
C509	1-161-494-00	CERAMIC	0.022uF		25V
C510	1-161-494-00	CERAMIC	0.022uF		25V
C511	1-126-925-11	ELECT	470uF	20%	10V
C512	1-161-494-00	CERAMIC	0.022uF		25V
C513	1-161-494-00	CERAMIC	0.022uF		25V
C514	1-126-961-11	ELECT	2.2uF	20%	50V
C515	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C516	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C517	1-109-953-11	ELECT	2.2uF	20%	50V
C518	1-109-953-11	ELECT	2.2uF	20%	50V
C519	1-162-193-31	CERAMIC	3.3PF	10%	50V
C520	1-162-193-31	CERAMIC	3.3PF	10%	50V
C521	1-137-399-11	MYLAR	0.1uF	5%	100V
C522	1-137-399-11	MYLAR	0.1uF	5%	100V
C523	1-126-966-11	ELECT	33uF	20%	16V
C524	1-126-966-11	ELECT	33uF	20%	16V
C528	1-126-964-11	ELECT	10uF	20%	50V
C529	1-126-964-11	ELECT	10uF	20%	50V
C530	1-107-714-11	ELECT	10uF	20%	50V
C531	1-107-714-11	ELECT	10uF	20%	50V
C582	1-137-399-11	MYLAR	0.1uF	5%	100V
C583	1-162-193-31	CERAMIC	3.3PF	10%	50V
C584	1-126-966-11	ELECT	33uF	20%	16V

CENTER/REAR DECORD

Ref. No.	Part No.	Description			Remark
C585	1-109-953-11	ELECT	2.2uF	20%	50V
C586	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C590	1-107-713-11	ELECT	4.7uF	20%	50V
C593	1-162-286-31	CERAMIC	220PF	10%	50V
C594	1-162-286-31	CERAMIC	220PF	10%	50V
C595	1-162-286-31	CERAMIC	220PF	10%	50V
C599	1-128-551-11	ELECT	22uF	20%	25V
		< CONNECTOR >			
* CN501	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D501	8-719-031-85	DIODE 1N4002L			
D502	8-719-031-85	DIODE 1N4002L			
D503	8-719-031-85	DIODE 1N4002L			
D504	8-719-031-85	DIODE 1N4002L			
D505	8-719-031-85	DIODE 1N4002L			
D506	8-719-010-76	DIODE UZ-13BS			
D507	8-719-110-08	DIODE UZ-8.2BS			
D508	8-719-911-19	DIODE 1SS133T-72			
D509	8-719-911-19	DIODE 1SS133T-72			
D511	8-719-911-19	DIODE 1SS133T-72			
D527	8-719-911-19	DIODE 1SS133T-72			
D528	8-719-911-19	DIODE 1SS133T-72			
D529	8-719-911-19	DIODE 1SS133T-72			
D581	8-719-911-19	DIODE 1SS133T-72			
D599	8-719-911-19	DIODE 1SS133T-72			
		< FUSE >			
⚠F501	1-576-104-11	FUSE (2A/250V) (US, CND)			
		< IC >			
IC501	8-749-018-11	IC STK402-270			
		< TRANSISTOR >			
Q501	8-729-822-89	TRANSISTOR 2SD1667-R			
Q502	8-729-188-23	TRANSISTOR 2SD882-P			
Q503	8-729-184-53	TRANSISTOR 2SC1841-EA			
Q504	8-729-184-53	TRANSISTOR 2SC1841-EA			
Q521	8-729-231-55	TRANSISTOR 2SC2878-A			
Q522	8-729-231-55	TRANSISTOR 2SC2878-A			
Q523	8-729-231-55	TRANSISTOR 2SC2878-A			
Q581	8-729-184-53	TRANSISTOR 2SC1841-EA			
		< RESISTOR >			
R501	1-247-708-11	CARBON	470	5%	1/4W
R502	1-246-461-15	CARBON	330	5%	1/4W
R503	1-247-855-11	CARBON	10K	5%	1/4W
R504	1-247-863-11	CARBON	22K	5%	1/4W
R505	1-247-863-11	CARBON	22K	5%	1/4W
R506	1-249-438-11	CARBON	56K	5%	1/4W
R507	1-249-438-11	CARBON	56K	5%	1/4W
R508	1-249-420-11	CARBON	1.8K	5%	1/4W
R509	1-249-420-11	CARBON	1.8K	5%	1/4W
R510	1-249-438-11	CARBON	56K	5%	1/4W
R511	1-249-438-11	CARBON	56K	5%	1/4W
R512	1-249-455-11	CARBON	4.7	5%	1/4W

Ref. No.	Part No.	Description			Remark	
R513	1-249-455-11	CARBON	4.7	5%	1/4W	
R514	1-249-464-11	CARBON	39K	5%	1/4W	
R515	1-247-726-11	CARBON	33K	5%	1/4W	
R516	1-247-713-11	CARBON	1K	5%	1/4W	
R517	1-247-713-11	CARBON	1K	5%	1/4W	
R518	1-249-431-11	CARBON	15K	5%	1/4W	
R519	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R520	1-220-755-11	METAL	0.22	10%	2W	F
⚠R521	1-220-755-11	METAL	0.22	10%	2W	F
R522	1-247-863-11	CARBON	22K	5%	1/4W	
R523	1-247-879-11	CARBON	100K	5%	1/4W	
R524	1-247-871-11	CARBON	47K	5%	1/4W	
R534	1-247-855-11	CARBON	10K	5%	1/4W	
R535	1-249-459-11	CARBON	12K	5%	1/4W	
R536	1-249-459-11	CARBON	12K	5%	1/4W	
⚠R581	1-220-755-11	METAL	0.22	10%	2W	F
R582	1-247-726-11	CARBON	33K	5%	1/4W	
R583	1-247-713-11	CARBON	1K	5%	1/4W	
R584	1-249-431-11	CARBON	15K	5%	1/4W	
R585	1-249-455-11	CARBON	4.7	5%	1/4W	
R586	1-249-438-11	CARBON	56K	5%	1/4W	
R587	1-249-420-11	CARBON	1.8K	5%	1/4W	
R588	1-249-438-11	CARBON	56K	5%	1/4W	
R590	1-247-871-11	CARBON	47K	5%	1/4W	
R593	1-247-871-11	CARBON	47K	5%	1/4W	
R594	1-247-839-11	CARBON	2.2K	5%	1/4W	
R595	1-247-839-11	CARBON	2.2K	5%	1/4W	
R598	1-247-855-11	CARBON	10K	5%	1/4W	
R599	1-247-863-11	CARBON	22K	5%	1/4W	
R514A	1-247-879-11	CARBON	100K	5%	1/4W	
R515A	1-247-879-11	CARBON	100K	5%	1/4W	
⚠R520A	1-220-755-11	METAL	0.22	10%	2W	F
⚠R521A	1-220-755-11	METAL	0.22	10%	2W	F
⚠R581A	1-220-755-11	METAL	0.22	10%	2W	F
R582A	1-249-469-11	CARBON	100K	5%	1/4W	
R591A	1-247-839-11	CARBON	2.2K	5%	1/4W	
R592A	1-247-871-11	CARBON	47K	5%	1/4W	

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A-4473-611-A DECORD BOARD, COMPLETE
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Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C701	1-104-664-11	ELECT	47uF	20%	16V
C702	1-137-352-11	MYLAR	0.033uF	5%	100V
C703	1-137-150-11	MYLAR	0.01uF	5%	100V
C704	1-137-352-11	MYLAR	0.033uF	5%	100V
C705	1-137-150-11	MYLAR	0.01uF	5%	100V
C706	1-128-551-11	ELECT	22uF	20%	25V
C707	1-162-209-31	CERAMIC	27PF	5%	50V
C708	1-164-159-11	CERAMIC	0.1uF		50V
C711	1-162-600-11	CERAMIC	0.0047uF	10%	16V
C712	1-162-306-11	CERAMIC	0.01uF	20%	16V
C713	1-136-291-11	MYLAR	0.0068uF	5%	100V
C714	1-137-397-11	MYLAR	0.047uF	5%	100V
C715	1-161-494-00	CERAMIC	0.022uF		25V
C716	1-137-399-11	MYLAR	0.1uF	5%	100V
C717	1-104-665-11	ELECT	100uF	20%	10V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C718	1-104-665-11	ELECT	100uF	20%	10V
C719	1-137-399-11	MYLAR	0.1uF	5%	100V
C720	1-137-389-11	MYLAR	0.0022uF	5%	100V
C721	1-137-399-11	MYLAR	0.1uF	5%	100V
C722	1-137-399-11	MYLAR	0.1uF	5%	100V
C723	1-137-399-11	MYLAR	0.1uF	5%	100V
C724	1-107-713-11	ELECT	4.7uF	20%	50V
C725	1-137-352-11	MYLAR	0.033uF	5%	100V
C726	1-130-486-00	MYLAR	0.018uF	10%	50V
C727	1-162-199-31	CERAMIC	10PF	5%	50V
C728	1-137-398-11	MYLAR	0.068uF	5%	100V
C729	1-126-962-11	ELECT	3.3uF	20%	50V
C730	1-162-215-31	CERAMIC	47PF	5%	50V
C731	1-164-159-11	CERAMIC	0.1uF		50V
C732	1-161-494-00	CERAMIC	0.022uF		25V
C733	1-104-665-11	ELECT	100uF	20%	10V
C734	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-162-294-31	CERAMIC	0.001uF	10%	50V
C737	1-162-306-11	CERAMIC	0.01uF	20%	16V
C740	1-126-925-11	ELECT	470uF	20%	10V
C742	1-161-494-00	CERAMIC	0.022uF		25V
C743	1-126-927-11	ELECT	2200uF	20%	10V
C745	1-162-306-11	CERAMIC	0.01uF	20%	16V
C746	1-107-713-11	ELECT	4.7uF	20%	35V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C753	1-161-494-00	CERAMIC	0.022uF		25V
C754	1-104-665-11	ELECT	100uF	20%	10V
C755	1-104-665-11	ELECT	100uF	20%	10V
C756	1-107-357-11	MYLAR	0.47uF	5%	100V
C757	1-162-306-11	CERAMIC	0.01uF	20%	16V
C759	1-162-290-31	CERAMIC	470PF	10%	50V
C760	1-162-286-31	CERAMIC	220PF	10%	50V
C761	1-130-781-00	MYLAR	0.22uF	5%	100V
C762	1-137-150-11	MYLAR	0.01uF	5%	100V
C763	1-161-494-00	CERAMIC	0.022uF		25V
C765	1-162-294-31	CERAMIC	0.001uF	10%	50V
C766	1-162-294-31	CERAMIC	0.001uF	10%	50V
C767	1-162-294-31	CERAMIC	0.001uF	10%	50V
C768	1-162-294-31	CERAMIC	0.001uF	10%	50V
C769	1-162-294-31	CERAMIC	0.001uF	10%	50V
C770	1-164-159-11	CERAMIC	0.1uF		50V
C771	1-161-494-00	CERAMIC	0.022uF		25V
C772	1-161-494-00	CERAMIC	0.022uF		25V
C773	1-102-516-11	CERAMIC	27PF	5%	50V
C774	1-102-516-11	CERAMIC	27PF	5%	50V
C777	1-162-294-31	CERAMIC	0.001uF	10%	50V
C778	1-162-294-31	CERAMIC	0.001uF	10%	50V
C779	1-162-282-31	CERAMIC	100PF	10%	50V
C780	1-162-294-31	CERAMIC	0.001uF	10%	50V
C781	1-162-284-31	CERAMIC	150PF	10%	50V
C782	1-162-284-31	CERAMIC	150PF	10%	50V
C783	1-162-292-31	CERAMIC	680PF	10%	50V
C784	1-162-292-31	CERAMIC	680PF	10%	50V
C785	1-126-963-11	ELECT	4.7uF	20%	50V
C786	1-126-963-11	ELECT	4.7uF	20%	50V
C787	1-162-294-31	CERAMIC	0.001uF	10%	50V
C788	1-162-294-31	CERAMIC	0.001uF	10%	50V
C789	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C790	1-126-926-11	ELECT	1000uF	20%	10V
C791	1-164-159-11	CERAMIC	0.1uF		50V
C792	1-162-286-31	CERAMIC	220PF	10%	50V
C793	1-162-294-31	CERAMIC	0.001uF	10%	50V
C794	1-162-294-31	CERAMIC	0.001uF	10%	50V
C795	1-164-159-11	CERAMIC	0.1uF		50V
C797	1-164-159-11	CERAMIC	0.1uF		50V
C798	1-126-963-11	ELECT	4.7uF	20%	50V
C799	1-161-494-00	CERAMIC	0.022uF		25V
C726A	1-164-206-41	CERAMIC	0.047uF	99%	50V
C727A	1-164-159-11	CERAMIC	0.1uF		50V
C740A	1-162-600-11	CERAMIC	0.0047uF	10%	16V
C740B	1-162-600-11	CERAMIC	0.0047uF	10%	16V
C740C	1-162-600-11	CERAMIC	0.0047uF	10%	16V
C740D	1-162-600-11	CERAMIC	0.0047uF	10%	16V
C751A	1-164-159-11	CERAMIC	0.1uF		50V
C771A	1-161-494-00	CERAMIC	0.022uF		25V
C777A	1-161-494-00	CERAMIC	0.022uF		25V
C789A	1-164-159-11	CERAMIC	0.1uF		50V
C790A	1-161-494-00	CERAMIC	0.022uF		25V
C799A	1-104-665-11	ELECT	100uF	20%	10V
C799B	1-104-665-11	ELECT	100uF	20%	10V

< CONNECTOR >

CN701	1-774-757-11	CONNECTOR, FFC/FPC 15P
* CN705	1-568-822-11	SOCKET, CONNECTOR 22P
* CN706	1-568-824-11	SOCKET, CONNECTOR 5P
* CN707	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P

< DIODE >

D703	8-719-991-33	DIODE	1SS133T-77
D706	8-719-010-40	DIODE	UZ-5.6BS

< IC >

IC701	8-752-082-14	IC	CXA1992BR
IC702	8-752-384-13	IC	CXD2589Q
IC703	8-759-579-80	IC	BA5936S
IC704	8-759-234-75	IC	TC74HC4094AP

< COIL >

L704	1-410-526-11	INDUCTOR	10uH
L705	1-410-526-11	INDUCTOR	10uH

< TRANSISTOR >

Q701	8-729-195-23	TRANSISTOR	2SA952-L
Q704	8-729-142-46	TRANSISTOR	2SC2001-L
Q712	8-729-194-57	TRANSISTOR	2SC945TP-P

< RESISTOR >

R701	1-249-397-11	CARBON	22	5%	1/4W
R704	1-247-854-11	CARBON	9.1K	5%	1/4W
R705	1-247-849-11	CARBON	5.6K	5%	1/4W
R706	1-249-428-11	CARBON	8.2K	5%	1/4W
R707	1-247-903-00	CARBON	1M	5%	1/4W
R709	1-247-806-11	CARBON	91	5%	1/4W
R710	1-247-881-00	CARBON	120K	5%	1/4W
R711	1-247-883-00	CARBON	150K	5%	1/4W
R719	1-247-883-00	CARBON	150K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R720	1-247-891-00	CARBON	330K	5%	1/4W
R721	1-247-885-00	CARBON	180K	5%	1/4W
R722	1-247-807-11	CARBON	100	5%	1/4W
R723	1-247-855-11	CARBON	10K	5%	1/4W
R724	1-249-428-11	CARBON	8.2K	5%	1/4W
R725	1-247-899-11	CARBON	680K	5%	1/4W
R726	1-247-883-00	CARBON	150K	5%	1/4W
R727	1-247-896-11	CARBON	510K	5%	1/4W
R728	1-249-459-11	CARBON	12K	5%	1/4W
R729	1-249-439-11	CARBON	68K	5%	1/4W
R730	1-247-871-11	CARBON	47K	5%	1/4W
R731	1-249-417-11	CARBON	1K	5%	1/4W
R732	1-247-883-00	CARBON	150K	5%	1/4W
R733	1-249-430-11	CARBON	12K	5%	1/4W
R734	1-247-883-00	CARBON	150K	5%	1/4W
R735	1-247-879-11	CARBON	100K	5%	1/4W
R736	1-249-459-11	CARBON	12K	5%	1/4W
R737	1-249-417-11	CARBON	1K	5%	1/4W
R739	1-249-459-11	CARBON	12K	5%	1/4W
R740	1-249-432-11	CARBON	18K	5%	1/4W
R741	1-249-432-11	CARBON	18K	5%	1/4W
R743	1-249-430-11	CARBON	12K	5%	1/4W
R744	1-249-461-11	CARBON	18K	5%	1/4W
R745	1-249-461-11	CARBON	18K	5%	1/4W
R746	1-249-461-11	CARBON	18K	5%	1/4W
R747	1-249-432-11	CARBON	18K	5%	1/4W
R748	1-247-847-11	CARBON	4.7K	5%	1/4W
R753	1-247-847-11	CARBON	4.7K	5%	1/4W
R755	1-247-871-11	CARBON	47K	5%	1/4W
R756	1-249-417-11	CARBON	1K	5%	1/4W
R758	1-247-871-11	CARBON	47K	5%	1/4W
R759	1-247-843-11	CARBON	3.3K	5%	1/4W
R760	1-249-417-11	CARBON	1K	5%	1/4W
R761	1-247-855-11	CARBON	10K	5%	1/4W
R762	1-247-903-00	CARBON	1M	5%	1/4W
R763	1-247-881-00	CARBON	120K	5%	1/4W
R764	1-247-855-11	CARBON	10K	5%	1/4W
R765	1-247-871-11	CARBON	47K	5%	1/4W
R766	1-249-417-11	CARBON	1K	5%	1/4W
R767	1-249-417-11	CARBON	1K	5%	1/4W
R771	1-249-417-11	CARBON	1K	5%	1/4W
R773	1-249-442-11	CARBON	510	5%	1/4W
R774	1-247-903-00	CARBON	1M	5%	1/4W
R775	1-247-864-11	CARBON	24K	5%	1/4W
R781	1-249-430-11	CARBON	12K	5%	1/4W
R782	1-249-430-11	CARBON	12K	5%	1/4W
R783	1-249-430-11	CARBON	12K	5%	1/4W
R784	1-249-430-11	CARBON	12K	5%	1/4W
R785	1-249-430-11	CARBON	12K	5%	1/4W
R786	1-249-430-11	CARBON	12K	5%	1/4W
R787	1-247-717-11	CARBON	2.2K	5%	1/4W
R788	1-247-717-11	CARBON	2.2K	5%	1/4W
R789	1-247-847-11	CARBON	4.7K	5%	1/4W
R790	1-247-847-11	CARBON	4.7K	5%	1/4W
R795	1-247-713-11	CARBON	1K	5%	1/4W
R796	1-247-713-11	CARBON	1K	5%	1/4W
R797	1-247-713-11	CARBON	1K	5%	1/4W
R799	1-249-411-11	CARBON	330	5%	1/4W
R726A	1-247-871-11	CARBON	47K	5%	1/4W
R729A	1-249-434-11	CARBON	27K	5%	1/4W
R748A	1-247-847-11	CARBON	4.7K	5%	1/4W
R766A	1-249-417-11	CARBON	1K	5%	1/4W
R767A	1-249-417-11	CARBON	1K	5%	1/4W
R768A	1-249-417-11	CARBON	1K	5%	1/4W
R780A	1-249-417-11	CARBON	1K	5%	1/4W
R795A	1-247-855-11	CARBON	10K	5%	1/4W
R796A	1-247-855-11	CARBON	10K	5%	1/4W
		< VIBRATOR >			
XTL01	1-567-908-11	VIBRATOR, CRYSTAL (16.9344MHz)			

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A-4475-113-A FRONT BOARD, COMPLETE

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Ref. No.	Part No.	Description			Remark
	4-230-508-01	SCREW (3X30)			
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 SLIT			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT			
	7-685-649-79	SCREW +BVTP 3X14 TYPE2 SLIT			
		< CAPACITOR >			
C539	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C540	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C541	1-109-953-11	ELECT	2.2uF	20%	50V
C542	1-109-953-11	ELECT	2.2uF	20%	50V
C543	1-162-193-31	CERAMIC	3.3PF	10%	50V
C544	1-162-193-31	CERAMIC	3.3PF	10%	50V
C545	1-126-966-11	ELECT	33uF	20%	16V
C546	1-126-966-11	ELECT	33uF	20%	16V
C547	1-137-399-11	MYLAR	0.1uF	5%	100V
C548	1-137-399-11	MYLAR	0.1uF	5%	100V
C551	1-104-664-11	ELECT	47uF	20%	16V
C552	1-126-767-11	ELECT	1000uF	20%	16V
C556	1-126-961-11	ELECT	2.2uF	20%	50V
C557	1-107-714-11	ELECT	10uF	20%	50V
C558	1-126-933-11	ELECT	100uF	20%	16V
C559	1-126-964-11	ELECT	10uF	20%	50V
C560	1-126-964-11	ELECT	10uF	20%	50V
C561	1-107-714-11	ELECT	10uF	20%	50V
C562	1-107-714-11	ELECT	10uF	20%	50V
C591	1-162-286-31	CERAMIC	220PF	10%	50V
C592	1-162-286-31	CERAMIC	220PF	10%	50V
C596	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
* CN505	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D512	8-719-911-19	DIODE 1SS133T-72			
D513	8-719-911-19	DIODE 1SS133T-72			
D514	8-719-911-19	DIODE 1SS133T-72			
D516	8-719-911-19	DIODE 1SS133T-72			
D517	8-719-911-19	DIODE 1SS133T-72			
D518	8-719-911-19	DIODE 1SS133T-72			
D519	8-719-911-19	DIODE 1SS133T-72			

Ref. No.	Part No.	Description			Remark	
D520	8-719-110-22	DIODE UZ-11BS				
D521	8-719-911-19	DIODE 1SS133T-72				
D525	8-719-911-19	DIODE 1SS133T-72				
D526	8-719-911-19	DIODE 1SS133T-72				
		< IC >				
IC502	8-749-016-94	IC STK402-090S				
		< MOTOR >				
M505	1-763-410-11	FAN, DC				
		< TRANSISTOR >				
Q505	8-729-194-57	TRANSISTOR 2SC945TP-P				
Q507	8-729-993-43	TRANSISTOR 2SA934R				
Q508	8-729-142-46	TRANSISTOR 2SC2001-L				
Q509	8-729-048-99	TRANSISTOR 2SK2541-T				
Q510	8-729-029-86	FET DTC124ES				
Q511	8-729-184-53	TRANSISTOR 2SC1841-EA				
Q512	8-729-184-53	TRANSISTOR 2SC1841-EA				
Q513	8-729-231-55	TRANSISTOR 2SC2878-A				
Q514	8-729-231-55	TRANSISTOR 2SC2878-A				
Q515	8-729-119-76	TRANSISTOR 2SA733-P				
Q516	8-729-103-63	TRANSISTOR 2SA953-KA				
Q517	8-729-194-57	TRANSISTOR 2SC945TP-P				
Q518	8-729-194-57	TRANSISTOR 2SC945TP-P				
Q519	8-729-194-57	TRANSISTOR 2SC945TP-P				
Q520	8-729-194-57	TRANSISTOR 2SC945TP-P				
		< RESISTOR >				
R525	1-249-465-11	CARBON	47K	5%	1/4W	
R526	1-249-465-11	CARBON	47K	5%	1/4W	
R527	1-247-871-11	CARBON	47K	5%	1/4W	
R528	1-247-879-11	CARBON	100K	5%	1/4W	
R529	1-247-903-00	CARBON	1M	5%	1/4W	
R530	1-249-417-11	CARBON	1K	5%	1/4W	
R537	1-249-417-11	CARBON	1K	5%	1/4W	
R538	1-249-417-11	CARBON	1K	5%	1/4W	
R539	1-247-855-11	CARBON	10K	5%	1/4W	
R540	1-247-855-11	CARBON	10K	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-438-11	CARBON	56K	5%	1/4W	
R543	1-247-716-11	CARBON	1.8K	5%	1/4W	
R544	1-247-716-11	CARBON	1.8K	5%	1/4W	
R545	1-249-438-11	CARBON	56K	5%	1/4W	
R546	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R547	1-260-300-11	CARBON	4.7	5%	1/2W	F
⚠R548	1-260-300-11	CARBON	4.7	5%	1/2W	F
⚠R549	1-247-739-11	CARBON	100	5%	1/2W	F
⚠R550	1-247-739-11	CARBON	100	5%	1/2W	F
R551	1-249-438-11	CARBON	56K	5%	1/4W	
R552	1-247-871-11	CARBON	47K	5%	1/4W	
R553	1-247-713-11	CARBON	1K	5%	1/4W	
R554	1-247-713-11	CARBON	1K	5%	1/4W	
R555	1-249-431-11	CARBON	15K	5%	1/4W	
R556	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R557	1-220-890-11	METAL	0.22	10%	3W	F
⚠R558	1-220-890-11	METAL	0.22	10%	3W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description			Remark	
R559	1-247-855-11	CARBON	10K	5%	1/4W	
R560	1-247-871-11	CARBON	47K	5%	1/4W	
R561	1-249-417-11	CARBON	1K	5%	1/4W	
R562	1-247-867-11	CARBON	33K	5%	1/4W	
R563	1-247-863-11	CARBON	22K	5%	1/4W	
R566	1-247-863-11	CARBON	22K	5%	1/4W	
R567	1-247-847-11	CARBON	4.7K	5%	1/4W	
R568	1-247-847-11	CARBON	4.7K	5%	1/4W	
R569	1-247-855-11	CARBON	10K	5%	1/4W	
R571	1-249-417-11	CARBON	1K	5%	1/4W	
R573	1-247-855-11	CARBON	10K	5%	1/4W	
R574	1-247-855-11	CARBON	10K	5%	1/4W	
R575	1-247-855-11	CARBON	10K	5%	1/4W	
R576	1-247-854-11	CARBON	9.1K	5%	1/4W	
⚠R577	1-247-758-11	CARBON	3.3K	5%	1/2W	F
R578	1-247-879-11	CARBON	100K	5%	1/4W	
R580	1-247-847-11	CARBON	4.7K	5%	1/4W	
R591	1-247-879-11	CARBON	100K	5%	1/4W	
⚠R592	1-247-727-11	CARBON	10	5%	1/2W	F
R551A	1-247-879-11	CARBON	100K	5%	1/4W	
R552A	1-247-879-11	CARBON	100K	5%	1/4W	
⚠R557A	1-220-890-11	METAL	0.22	10%	3W	F
⚠R558A	1-220-890-11	METAL	0.22	10%	3W	F
R560A	1-247-839-11	CARBON	2.2K	5%	1/4W	
		< THERMISTOR >				
TH501	1-803-779-11	THERMISTOR				

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	A-4475-119-A	H/P BOARD, COMPLETE ********************
		< JACK >
JK403	1-569-612-11	JACK, MINIATURE (PHONES)

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	A-4475-116-A	MAIN BOARD, COMPLETE (US, CND) ********************			
		< CAPACITOR >			
C101	1-162-282-31	CERAMIC	100PF	10%	50V
C102	1-161-494-00	CERAMIC	0.022uF		25V
C103	1-126-959-11	ELECT	0.47uF	20%	50V
C104	1-161-494-00	CERAMIC	0.022uF		25V
C105	1-162-286-31	CERAMIC	220PF	10%	50V
C106	1-161-494-00	CERAMIC	0.022uF		25V
C107	1-161-494-00	CERAMIC	0.022uF		25V
C109	1-126-964-11	ELECT	10uF	20%	50V
C111	1-164-159-11	CERAMIC	0.1uF		50V
C113	1-162-286-31	CERAMIC	220PF	10%	50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C117	1-162-199-31	CERAMIC	10PF	5%	50V
C118	1-126-933-11	ELECT	100uF	20%	16V
C120	1-161-494-00	CERAMIC	0.022uF		25V
C121	1-162-215-31	CERAMIC	47PF	5%	50V
C122	1-126-960-11	ELECT	1uF	20%	50V
C123	1-126-959-11	ELECT	0.47uF	20%	50V
C124	1-162-206-31	CERAMIC	20PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C125	1-126-960-11	ELECT	1uF	20%	50V
C126	1-161-494-00	CERAMIC	0.022uF		25V
C127	1-126-964-11	ELECT	10uF	20%	50V
C128	1-161-494-00	CERAMIC	0.022uF		25V
C129	1-126-964-11	ELECT	10uF	20%	50V
C130	1-137-352-11	MYLAR	0.033uF	5%	100V
C131	1-137-352-11	MYLAR	0.033uF	5%	100V
C132	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C133	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C134	1-126-962-11	ELECT	3.3uF	20%	50V
C135	1-162-290-31	CERAMIC	470PF	10%	50V
C136	1-128-551-11	ELECT	22uF	20%	25V
C137	1-126-963-11	ELECT	4.7uF	20%	50V
C138	1-164-159-11	CERAMIC	0.1uF		50V
C139	1-161-494-00	CERAMIC	0.022uF		25V
C140	1-126-933-11	ELECT	100uF	20%	16V
C141	1-161-494-00	CERAMIC	0.022uF		25V
C142	1-126-933-11	ELECT	100uF	20%	16V
C143	1-137-401-11	MYLAR	0.22uF	5%	100V
C144	1-137-150-11	MYLAR	0.01uF	5%	100V
C146	1-162-294-31	CERAMIC	0.001uF	10%	50V
C147	1-162-306-11	CERAMIC	0.01uF	30%	16V
C148	1-161-494-00	CERAMIC	0.022uF		25V
C149	1-162-294-31	CERAMIC	0.001uF	10%	50V
C150	1-164-159-11	CERAMIC	0.1uF		50V
C151	1-126-959-11	ELECT	0.47uF	20%	50V
C152	1-126-959-11	ELECT	0.47uF	20%	50V
C153	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C154	1-164-159-11	CERAMIC	0.1uF		50V
C155	1-162-294-31	CERAMIC	0.001uF	10%	50V
C156	1-102-951-00	CERAMIC	15PF	5%	50V
C157	1-102-951-00	CERAMIC	15PF	5%	50V
C158	1-104-664-11	ELECT	47uF	20%	10V
C160	1-126-963-11	ELECT	4.7uF	20%	50V
C161	1-126-963-11	ELECT	4.7uF	20%	50V
C163	1-161-494-00	CERAMIC	0.022uF		25V
C165	1-161-494-00	CERAMIC	0.022uF		25V
C166	1-164-159-11	CERAMIC	0.1uF		50V
C167	1-162-286-31	CERAMIC	220PF	10%	50V
C197	1-164-206-41	CERAMIC	0.047uF	99%	50V
C198	1-161-494-00	CERAMIC	0.022uF		25V
C199	1-161-494-00	CERAMIC	0.022uF		25V
C201	1-162-292-31	CERAMIC	680PF	10%	50V
C202	1-162-292-31	CERAMIC	680PF	10%	50V
C203	1-162-292-31	CERAMIC	680PF	10%	50V
C204	1-162-292-31	CERAMIC	680PF	10%	50V
C205	1-162-286-31	CERAMIC	220PF	10%	50V
C206	1-162-286-31	CERAMIC	220PF	10%	50V
C207	1-162-286-31	CERAMIC	220PF	10%	50V
C208	1-162-286-31	CERAMIC	220PF	10%	50V
C209	1-104-664-11	ELECT	47uF	20%	16V
C210	1-104-664-11	ELECT	47uF	20%	16V
C211	1-137-462-11	MYLAR	0.018uF	5%	100V
C212	1-137-462-11	MYLAR	0.018uF	5%	100V
C213	1-126-960-11	ELECT	1uF	20%	50V
C214	1-126-960-11	ELECT	1uF	20%	50V
C215	1-162-303-11	CERAMIC	0.0033uF	20%	16V
C216	1-162-303-11	CERAMIC	0.0033uF	20%	16V
C217	1-104-664-11	ELECT	47uF	20%	16V
C218	1-126-940-11	ELECT	330uF	20%	16V
C219	1-126-962-11	ELECT	3.3uF	20%	50V
C221	1-126-962-11	ELECT	3.3uF	20%	50V
C222	1-126-962-11	ELECT	3.3uF	20%	50V
C223	1-162-290-31	CERAMIC	470PF	10%	50V
C224	1-162-290-31	CERAMIC	470PF	10%	50V
C225	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C226	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C227	1-162-286-31	CERAMIC	220PF	10%	50V
C228	1-162-286-31	CERAMIC	220PF	10%	50V
C229	1-126-933-11	ELECT	100uF	20%	16V
C230	1-126-933-11	ELECT	100uF	20%	16V
C231	1-126-958-11	ELECT	0.33uF	20%	50V
C232	1-126-958-11	ELECT	0.33uF	20%	50V
C233	1-137-397-11	MYLAR	0.047uF	5%	100V
C234	1-137-397-11	MYLAR	0.047uF	5%	100V
C235	1-126-960-11	ELECT	1uF	20%	50V
C236	1-126-933-11	ELECT	100uF	20%	16V
C237	1-161-494-00	CERAMIC	0.022uF		25V
C238	1-126-961-11	ELECT	2.2uF	20%	50V
C251	1-130-487-00	MYLAR	0.022uF	5%	50V
C252	1-137-350-11	MYLAR	0.015uF	5%	100V
C253	1-137-150-11	MYLAR	0.01uF	5%	100V
C254	1-136-356-11	MYLAR	470PF	5%	100V
C255	1-104-664-11	ELECT	47uF	20%	16V
C256	1-126-960-11	ELECT	1uF	20%	50V
C257	1-126-956-11	ELECT	0.1uF	20%	50V
C265	1-162-306-11	CERAMIC	0.01uF	30%	16V
C271	1-126-963-11	ELECT	4.7uF	20%	50V
C300	1-164-159-11	CERAMIC	0.1uF		50V
C301	1-126-959-11	ELECT	0.47uF	20%	50V
C302	1-126-959-11	ELECT	0.47uF	20%	50V
C303	1-126-959-11	ELECT	0.47uF	20%	50V
C304	1-126-959-11	ELECT	0.47uF	20%	50V
C305	1-126-949-11	ELECT	220uF	20%	35V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-162-286-31	CERAMIC	220PF	10%	50V
C308	1-162-286-31	CERAMIC	220PF	10%	50V
C309	1-162-286-31	CERAMIC	220PF	10%	50V
C310	1-126-959-11	ELECT	0.47uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-137-399-11	MYLAR	0.1uF	5%	100V
C313	1-137-398-11	MYLAR	0.068uF	5%	100V
C314	1-137-398-11	MYLAR	0.068uF	5%	100V
C315	1-136-291-11	MYLAR	0.0068uF	5%	100V
C316	1-136-291-11	MYLAR	0.0068uF	5%	100V
C317	1-137-459-11	MYLAR	0.0056uF	5%	100V
C318	1-126-961-11	ELECT	2.2uF	20%	50V
C319	1-126-933-11	ELECT	100uF	20%	16V
C322	1-126-960-11	ELECT	1uF	20%	50V
C323	1-126-960-11	ELECT	1uF	20%	50V
C324	1-126-960-11	ELECT	1uF	20%	50V
C325	1-162-199-31	CERAMIC	10PF	5%	50V
C326	1-162-199-31	CERAMIC	10PF	5%	50V
C327	1-126-963-11	ELECT	4.7uF	20%	50V
C328	1-126-963-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description			Remark
C330	1-126-960-11	ELECT	1uF	20%	50V
C331	1-126-961-11	ELECT	2.2uF	20%	50V
C332	1-126-961-11	ELECT	2.2uF	20%	50V
C334	1-126-933-11	ELECT	100uF	20%	16V
C335	1-126-959-11	ELECT	0.47uF	20%	50V
C336	1-126-959-11	ELECT	0.47uF	20%	50V
C339	1-126-963-11	ELECT	4.7uF	20%	50V
C340	1-126-963-11	ELECT	4.7uF	20%	50V
C341	1-137-399-11	MYLAR	0.1uF	5%	100V
C342	1-137-399-11	MYLAR	0.1uF	5%	100V
C343	1-137-399-11	MYLAR	0.1uF	5%	100V
C344	1-137-399-11	MYLAR	0.1uF	5%	100V
C345	1-162-294-31	CERAMIC	0.001uF	10%	50V
C346	1-162-294-31	CERAMIC	0.001uF	10%	50V
C347	1-162-286-31	CERAMIC	220PF	10%	50V
C348	1-162-286-31	CERAMIC	220PF	10%	50V
C349	1-161-494-00	CERAMIC	0.022uF		25V
C350	1-161-494-00	CERAMIC	0.022uF		25V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-126-960-11	ELECT	1uF	20%	50V
C353	1-126-964-11	ELECT	10uF	20%	50V
C354	1-126-964-11	ELECT	10uF	20%	50V
C355	1-126-933-11	ELECT	100uF	20%	16V
C356	1-126-964-11	ELECT	10uF	20%	50V
C357	1-126-964-11	ELECT	10uF	20%	50V
C358	1-126-960-11	ELECT	1uF	20%	50V
C359	1-126-964-11	ELECT	10uF	20%	50V
C360	1-126-964-11	ELECT	10uF	20%	50V
C361	1-126-964-11	ELECT	10uF	20%	50V
C362	1-126-964-11	ELECT	10uF	20%	50V
C363	1-126-964-11	ELECT	10uF	20%	50V
C364	1-126-960-11	ELECT	1uF	20%	50V
C365	1-137-399-11	MYLAR	0.1uF	5%	100V
C366	1-137-399-11	MYLAR	0.1uF	5%	100V
C367	1-126-960-11	ELECT	1uF	20%	50V
C368	1-126-960-11	ELECT	1uF	20%	50V
C369	1-126-960-11	ELECT	1uF	20%	50V
C370	1-137-399-11	MYLAR	0.1uF	5%	100V
C371	1-164-159-11	CERAMIC	0.1uF		50V
C372	1-162-286-31	CERAMIC	220PF	10%	50V
C373	1-162-286-31	CERAMIC	220PF	10%	50V
C374	1-162-286-31	CERAMIC	220PF	10%	50V
C375	1-109-889-11	ELECT	1uF	20%	50V
C377	1-137-381-11	MYLAR	0.0001uF	5%	100V
C378	1-137-399-11	MYLAR	0.1uF	5%	100V
C379	1-137-401-11	MYLAR	0.22uF	5%	100V
C380	1-137-401-11	MYLAR	0.22uF	5%	100V
C381	1-137-399-11	MYLAR	0.1uF	5%	100V
C382	1-136-356-11	MYLAR	470PF	5%	100V
C383	1-137-381-11	MYLAR	0.0001uF	5%	100V
C384	1-126-960-11	ELECT	1uF	20%	50V
C385	1-137-459-11	MYLAR	0.0056uF	5%	100V
C386	1-137-397-11	MYLAR	0.047uF	5%	100V
C387	1-107-357-11	MYLAR	0.47uF	5%	100V
C388	1-137-401-11	MYLAR	0.22uF	5%	100V
C389	1-137-401-11	MYLAR	0.22uF	5%	100V
C390	1-126-963-11	ELECT	4.7uF	20%	50V
C391	1-126-963-11	ELECT	4.7uF	20%	50V
C392	1-137-401-11	MYLAR	0.22uF	5%	100V
C393	1-137-401-11	MYLAR	0.22uF	5%	100V
C394	1-137-399-11	MYLAR	0.1uF	5%	100V
C395	1-137-397-11	MYLAR	0.047uF	5%	100V
C396	1-137-397-11	MYLAR	0.047uF	5%	100V
C397	1-137-399-11	MYLAR	0.1uF	5%	100V
C398	1-137-399-11	MYLAR	0.1uF	5%	100V
C399	1-137-351-11	MYLAR	0.022uF	5%	100V
C402	1-126-974-11	ELECT	3300uF	20%	50V
C403	1-126-974-11	ELECT	3300uF	20%	50V
C404	1-119-940-11	ELECT	4700uF	20%	50V
C405	1-119-940-11	ELECT	4700uF	20%	50V
C406	1-161-494-00	CERAMIC	0.022uF		25V
C407	1-161-494-00	CERAMIC	0.022uF		25V
C412	1-126-967-11	ELECT	47uF	20%	50V
C413	1-101-004-00	CERAMIC	0.01uF		50V
C414	1-101-004-00	CERAMIC	0.01uF		50V
C415	1-101-004-00	CERAMIC	0.01uF		50V
C416	1-101-004-00	CERAMIC	0.01uF		50V
C417	1-126-968-11	ELECT	100uF	20%	50V
C418	1-161-494-00	CERAMIC	0.022uF		25V
C419	1-161-494-00	CERAMIC	0.022uF		25V
C420	1-128-553-11	ELECT	220uF	20%	63V
C421	1-126-968-11	ELECT	100uF	20%	50V
C422	1-126-949-11	ELECT	220uF	20%	35V
C423	1-161-494-00	CERAMIC	0.022uF		25V
C424	1-104-658-11	ELECT	100uF	20%	10V
C425	1-126-933-11	ELECT	100uF	20%	16V
C426	1-161-494-00	CERAMIC	0.022uF		25V
C431	1-161-494-00	CERAMIC	0.022uF		25V
C432	1-126-933-11	ELECT	100uF	20%	16V
C433	1-126-933-11	ELECT	100uF	20%	16V
C434	1-161-494-00	CERAMIC	0.022uF		25V
C440	1-126-933-11	ELECT	100uF	20%	16V
C442	1-164-159-11	CERAMIC	0.1uF		50V
C453	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C453	1-164-159-11	CERAMIC	0.1uF		50V
C454	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C460	1-126-959-11	ELECT	0.47uF	20%	50V
C117A	1-162-196-31	CERAMIC	5.6PF	10%	50V
C120A	1-164-206-41	CERAMIC	0.047uF	99%	50V
C121A	1-104-664-11	ELECT	47uF	20%	16V
C235A	1-162-215-31	CERAMIC	47PF	5%	50V
C236A	1-162-215-31	CERAMIC	47PF	5%	50V
C300A	1-161-494-00	CERAMIC	0.022uF		25V
C301A	1-126-964-11	ELECT	10uF	20%	50V
C301B	1-126-964-11	ELECT	10uF	20%	50V
C305A	1-164-159-11	CERAMIC	0.1uF		50V
C306A	1-126-964-11	ELECT	10uF	20%	50V
C308A	1-162-286-31	CERAMIC	220PF	10%	50V
C309A	1-126-959-11	ELECT	0.47uF	20%	50V
C3100	1-137-351-11	MYLAR	0.022uF	5%	100V
C3101	1-137-399-11	MYLAR	0.1uF	5%	100V
C3102	1-130-469-00	MYLAR	680PF	5%	50V
C3103	1-137-150-11	MYLAR	0.01uF	5%	100V
C3104	1-130-469-00	MYLAR	680PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C3105	1-137-150-11	MYLAR	0.01uF	5%	100V
C3106	1-137-150-11	MYLAR	0.01uF	5%	100V
C3107	1-137-150-11	MYLAR	0.01uF	5%	100V
C3108	1-104-664-11	ELECT	47uF	20%	16V
C3109	1-136-291-11	MYLAR	0.0068uF	5%	100V
C3110	1-107-713-11	ELECT	4.7uF	20%	50V
C3111	1-126-933-11	ELECT	100uF	20%	16V
C3112	1-126-949-11	ELECT	220uF	20%	35V
C3113	1-126-964-11	ELECT	10uF	20%	50V
C3114	1-162-286-31	CERAMIC	220PF	10%	50V
C3115	1-126-964-11	ELECT	10uF	20%	50V
C3116	1-126-964-11	ELECT	10uF	20%	50V
C3117	1-162-286-31	CERAMIC	220PF	10%	50V
C3118	1-162-286-31	CERAMIC	220PF	10%	50V
C3119	1-161-494-00	CERAMIC	0.022uF		25V
C311A	1-126-964-11	ELECT	10uF	20%	50V
C311B	1-162-286-31	CERAMIC	220PF	10%	50V
C311C	1-162-286-31	CERAMIC	220PF	10%	50V
C3120	1-161-494-00	CERAMIC	0.022uF		25V
C3121	1-126-960-11	ELECT	1uF	20%	50V
C3122	1-126-960-11	ELECT	1uF	20%	50V
C3123	1-126-960-11	ELECT	1uF	20%	50V
C3124	1-161-494-00	CERAMIC	0.022uF		25V
C3125	1-161-494-00	CERAMIC	0.022uF		25V
C3126	1-162-286-31	CERAMIC	220PF	10%	50V
C3127	1-126-961-11	ELECT	2.2uF	20%	50V
C3129	1-164-159-11	CERAMIC	0.1uF		50V
C312A	1-137-399-11	MYLAR	0.1uF	5%	100V
C313A	1-137-398-11	MYLAR	0.068uF	5%	100V
C314A	1-137-398-11	MYLAR	0.068uF	5%	100V
C315A	1-136-291-11	MYLAR	0.0068uF	5%	100V
C316A	1-136-291-11	MYLAR	0.0068uF	5%	100V
C317A	1-137-459-11	MYLAR	0.0056uF	5%	100V
C318A	1-126-961-11	ELECT	2.2uF	20%	50V
C319A	1-164-159-11	CERAMIC	0.1uF		50V
C322A	1-126-960-11	ELECT	1uF	20%	50V
C330A	1-126-960-11	ELECT	1uF	20%	50V
C334A	1-126-964-11	ELECT	10uF	20%	50V
C347A	1-162-286-31	CERAMIC	220PF	10%	50V
C348A	1-162-286-31	CERAMIC	220PF	10%	50V
C355A	1-162-290-31	CERAMIC	470PF	10%	50V
C356A	1-162-290-31	CERAMIC	470PF	10%	50V
C367A	1-126-964-11	ELECT	10uF	20%	50V
C381A	1-162-286-31	CERAMIC	220PF	10%	50V
C382A	1-162-286-31	CERAMIC	220PF	10%	50V
C383A	1-126-960-11	ELECT	1uF	20%	50V
C422A	1-126-767-11	ELECT	1000uF	20%	16V
C442A	1-109-953-11	ELECT	2.2uF	20%	50V
C453A	1-164-159-11	CERAMIC	0.1uF		50V

< FILTER >

CF101	1-567-390-11	FILTER, CERAMIC (10.7MHz)
CF102	1-579-568-11	FILTER, CERAMIC (10.7MHz)
CF103	1-527-996-11	FILTER, CERAMIC (450kHz)
CF104	1-579-856-11	DISCRIMINATOR, CERAMIC (10.7MHz)

< CONNECTOR >

CN101	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P

Ref. No.	Part No.	Description	Remark
* CN301	1-564-515-11	PLUG, CONNECTOR 12P	
* CN302	1-564-511-11	PLUG, CONNECTOR 8P	
* CN305	1-564-509-11	PLUG, CONNECTOR 6P	
* CN502	1-564-512-11	PLUG, CONNECTOR 9P	

< DIODE >

D001	8-719-911-19	DIODE 1SS133T-72
D002	8-719-911-19	DIODE 1SS133T-72
D101	8-719-911-19	DIODE 1SS133T-72
D102	8-719-911-19	DIODE 1SS133T-72
D103	8-719-911-19	DIODE 1SS133T-72
D104	8-719-911-19	DIODE 1SS133T-72
D106	8-719-911-19	DIODE 1SS133T-72
D107	8-719-010-40	DIODE UZ-5.6BS
D201	8-719-911-19	DIODE 1SS133T-72
D202	8-719-911-19	DIODE 1SS133T-72
D203	8-719-911-19	DIODE 1SS133T-72
D204	8-719-911-19	DIODE 1SS133T-72
D205	8-719-911-19	DIODE 1SS133T-72
D303	8-719-010-60	DIODE UZ-9.1BS
D305	8-719-911-19	DIODE 1SS133T-72
D306	8-719-911-19	DIODE 1SS133T-72
D307	8-719-010-44	DIODE UZ-6.2BS
D308	8-719-010-44	DIODE UZ-6.2BS
D309	8-719-911-19	DIODE 1SS133T-72
D402	8-719-074-96	DIODE GBU4D
D403	8-719-027-23	DIODE GBU6D
D405	8-719-010-44	DIODE UZ-6.2BS
D407	8-719-921-82	DIODE UZ-12BS
D409	8-719-012-32	DIODE UZ-27BS
D410	8-719-010-31	DIODE UZ-4.7BS
D411	8-719-031-85	DIODE 1N4002L
D412	8-719-031-85	DIODE 1N4002L
D417	8-719-911-19	DIODE 1SS133T-72
D418	8-719-911-19	DIODE 1SS133T-72
D419	8-719-911-19	DIODE 1SS133T-72
D420	8-719-911-19	DIODE 1SS133T-72
D421	8-719-911-19	DIODE 1SS133T-72
D422	8-719-911-19	DIODE 1SS133T-72
D423	8-719-911-19	DIODE 1SS133T-72

< FRONT END >

FE101	1-693-469-11	FRONT END

< IC >

IC102	8-759-663-31	IC LA1833N
IC103	8-759-590-13	IC LC72131D
IC201	8-759-242-58	IC TA8189N
IC301	8-759-686-85	IC M62498AFP
IC302	8-759-571-51	IC M62464FP
IC303	8-759-505-55	IC NJM4558L
IC304	8-759-505-55	IC NJM4558L
IC305	8-759-505-55	IC NJM4558L
IC306	8-759-505-55	IC NJM4558L
IC307	8-759-505-55	IC NJM4558L

< TERMINAL/JACK >

JK101	1-694-092-21	TERMINAL BOARD (ANTENNA)

Ref. No.	Part No.	Description	Remark
JK301	1-793-612-11	JACK, PIN 8P (MD/VIDEO IN, DVD INPUT: FRONT, REAR, CENTER, WOOFER)	
JK303	1-793-582-11	JACK, PIN 1P (WOOFER OUT)	
JK401	1-694-604-11	TERMINAL, SPEAKER (4P) (FRONT SPEAKER)	
JK402	1-694-605-11	TERMINAL, SPEAKER (6P) (REAR/CENTER SPEAKER)	
		< COIL >	
L102	1-410-330-11	INDUCTOR 22uH	
L103	1-410-330-11	INDUCTOR 22uH	
L106	1-410-517-11	INDUCTOR 47uH	
L113	1-410-330-11	INDUCTOR 22uH	
L201	1-419-645-11	COIL, BIAS OSCILLATION	
L406	1-408-096-00	INDUCTOR 470uH	
		< TRANSISTOR >	
Q101	8-729-672-42	TRANSISTOR 2SC1675-L	
Q103	8-729-207-35	FET 2SJ105-Y	
Q104	8-729-041-83	FET 2SK544E	
Q109	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q110	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q201	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q202	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q203	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q204	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q205	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q206	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q207	8-729-119-76	TRANSISTOR 2SA733-P	
Q208	8-729-119-76	TRANSISTOR 2SA733-P	
Q209	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q210	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q211	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q213	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q214	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q251	8-729-142-46	TRANSISTOR 2SC2001-L	
Q252	8-729-119-76	TRANSISTOR 2SA733-P	
Q253	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q303	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q304	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q305	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q308	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q309	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q312	8-729-207-35	FET 2SJ105-Y	
Q313	8-729-207-35	FET 2SJ105-Y	
Q316	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q317	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q319	8-729-231-55	TRANSISTOR 2SC2878-A	
Q320	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q321	8-729-231-55	TRANSISTOR 2SC2878-A	
Q401	8-729-188-23	TRANSISTOR 2SD882-P	
Q403	8-729-232-32	TRANSISTOR 2SA965-O/Y (TPE6)	
Q405	8-729-140-96	TRANSISTOR 2SC2060-R	
Q406	8-729-232-32	TRANSISTOR 2SA965-O/Y TPE6)	
Q411	8-729-207-35	FET 2SJ105-Y	
Q412	8-729-119-76	TRANSISTOR 2SA733-P	
Q413	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q414	8-729-029-72	FET DTC114YS	
Q415	8-729-029-72	FET DTC114YS	

Ref. No.	Part No.	Description			Remark
Q416	8-729-029-72	FET DTC114YS			
Q419	8-729-231-55	TRANSISTOR 2SC2878-A			
Q420	8-729-231-55	TRANSISTOR 2SC2878-A			
		< RESISTOR >			
R101	1-247-855-11	CARBON	10K	5%	1/4W
R103	1-247-835-11	CARBON	1.5K	5%	1/4W
R105	1-249-417-11	CARBON	1K	5%	1/4W
R106	1-247-839-11	CARBON	2.2K	5%	1/4W
R107	1-249-427-11	CARBON	6.8K	5%	1/4W
R108	1-247-863-11	CARBON	22K	5%	1/4W
R109	1-247-871-11	CARBON	47K	5%	1/4W
R112	1-247-807-11	CARBON	100	5%	1/4W
R113	1-247-843-11	CARBON	3.3K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W
R115	1-249-417-11	CARBON	1K	5%	1/4W
R116	1-247-692-11	CARBON	22	5%	1/4W
R117	1-247-847-11	CARBON	4.7K	5%	1/4W
R118	1-249-405-11	CARBON	100	5%	1/4W
R119	1-247-807-11	CARBON	100	5%	1/4W
R120	1-247-843-11	CARBON	3.3K	5%	1/4W
R121	1-247-855-11	CARBON	10K	5%	1/4W
R122	1-249-432-11	CARBON	18K	5%	1/4W
R123	1-247-724-11	CARBON	8.2K	5%	1/4W
R124	1-247-843-11	CARBON	3.3K	5%	1/4W
R125	1-249-409-11	CARBON	220	5%	1/4W
R126	1-247-843-11	CARBON	3.3K	5%	1/4W
R127	1-247-843-11	CARBON	3.3K	5%	1/4W
R128	1-247-847-11	CARBON	4.7K	5%	1/4W
R129	1-247-847-11	CARBON	4.7K	5%	1/4W
R130	1-249-459-11	CARBON	12K	5%	1/4W
R131	1-247-713-11	CARBON	1K	5%	1/4W
R132	1-247-855-11	CARBON	10K	5%	1/4W
R133	1-247-849-11	CARBON	5.6K	5%	1/4W
R134	1-247-855-11	CARBON	10K	5%	1/4W
R135	1-249-417-11	CARBON	1K	5%	1/4W
R136	1-247-879-11	CARBON	100K	5%	1/4W
R137	1-247-855-11	CARBON	10K	5%	1/4W
R138	1-247-807-11	CARBON	100	5%	1/4W
R139	1-247-725-11	CARBON	10K	5%	1/4W
R140	1-247-855-11	CARBON	10K	5%	1/4W
R141	1-247-839-11	CARBON	2.2K	5%	1/4W
R142	1-247-839-11	CARBON	2.2K	5%	1/4W
R143	1-247-839-11	CARBON	2.2K	5%	1/4W
R146	1-249-417-11	CARBON	1K	5%	1/4W
R148	1-247-855-11	CARBON	10K	5%	1/4W
R149	1-247-855-11	CARBON	10K	5%	1/4W
R150	1-247-843-11	CARBON	3.3K	5%	1/4W
R199	1-249-411-11	CARBON	330	5%	1/4W
R201	1-249-393-11	CARBON	10	5%	1/4W
R202	1-249-393-11	CARBON	10	5%	1/4W
R203	1-249-393-11	CARBON	10	5%	1/4W
R204	1-249-393-11	CARBON	10	5%	1/4W
R205	1-249-400-11	CARBON	39	5%	1/4W
R206	1-249-400-11	CARBON	39	5%	1/4W
R207	1-249-428-11	CARBON	8.2K	5%	1/4W
R208	1-249-428-11	CARBON	8.2K	5%	1/4W
R209	1-247-889-00	CARBON	270K	5%	1/4W

MAIN

Ref. No.	Part No.	Description			Remark
R210	1-247-889-00	CARBON	270K	5%	1/4W
R211	1-247-891-00	CARBON	330K	5%	1/4W
R212	1-247-891-00	CARBON	330K	5%	1/4W
R213	1-247-847-11	CARBON	4.7K	5%	1/4W
R214	1-247-847-11	CARBON	4.7K	5%	1/4W
R215	1-247-891-00	CARBON	330K	5%	1/4W
R216	1-247-891-00	CARBON	330K	5%	1/4W
R217	1-247-855-11	CARBON	10K	5%	1/4W
R218	1-247-885-00	CARBON	180K	5%	1/4W
R219	1-247-871-11	CARBON	47K	5%	1/4W
R220	1-247-863-11	CARBON	22K	5%	1/4W
R221	1-247-855-11	CARBON	10K	5%	1/4W
R222	1-247-704-11	CARBON	220	5%	1/4W
R223	1-247-885-00	CARBON	180K	5%	1/4W
R224	1-247-885-00	CARBON	180K	5%	1/4W
R225	1-247-863-11	CARBON	22K	5%	1/4W
R226	1-247-863-11	CARBON	22K	5%	1/4W
R227	1-247-881-00	CARBON	120K	5%	1/4W
R228	1-247-881-00	CARBON	120K	5%	1/4W
R229	1-249-420-11	CARBON	1.8K	5%	1/4W
R230	1-249-420-11	CARBON	1.8K	5%	1/4W
R231	1-249-422-11	CARBON	2.7K	5%	1/4W
R232	1-249-422-11	CARBON	2.7K	5%	1/4W
R233	1-247-863-11	CARBON	22K	5%	1/4W
R234	1-247-863-11	CARBON	22K	5%	1/4W
R235	1-247-847-11	CARBON	4.7K	5%	1/4W
R236	1-247-847-11	CARBON	4.7K	5%	1/4W
R237	1-247-855-11	CARBON	10K	5%	1/4W
R238	1-247-899-11	CARBON	680K	5%	1/4W
R239	1-249-381-11	CARBON	1	5%	1/4W
R240	1-247-855-11	CARBON	10K	5%	1/4W
R241	1-247-847-11	CARBON	4.7K	5%	1/4W
R242	1-247-847-11	CARBON	4.7K	5%	1/4W
R243	1-249-430-11	CARBON	12K	5%	1/4W
R244	1-247-839-11	CARBON	2.2K	5%	1/4W
R245	1-247-839-11	CARBON	2.2K	5%	1/4W
R246	1-249-434-11	CARBON	27K	5%	1/4W
R247	1-247-855-11	CARBON	10K	5%	1/4W
R248	1-247-847-11	CARBON	4.7K	5%	1/4W
R249	1-247-899-11	CARBON	680K	5%	1/4W
R250	1-247-885-00	CARBON	180K	5%	1/4W
R251	1-249-434-11	CARBON	27K	5%	1/4W
R253	1-247-710-11	CARBON	560	5%	1/4W
R254	1-247-855-11	CARBON	10K	5%	1/4W
R255	1-247-847-11	CARBON	4.7K	5%	1/4W
R256	1-247-855-11	CARBON	10K	5%	1/4W
R257	1-249-412-11	CARBON	390	5%	1/4W
R258	1-247-704-11	CARBON	220	5%	1/4W
R261	1-249-412-11	CARBON	390	5%	1/4W
R262	1-247-879-11	CARBON	100K	5%	1/4W
R263	1-247-855-11	CARBON	10K	5%	1/4W
R264	1-247-855-11	CARBON	10K	5%	1/4W
R271	1-247-807-11	CARBON	100	5%	1/4W
R301	1-249-417-11	CARBON	1K	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W
R303	1-249-418-11	CARBON	1.2K	5%	1/4W
R304	1-249-418-11	CARBON	1.2K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R305	1-247-839-11	CARBON	2.2K	5%	1/4W
R306	1-247-839-11	CARBON	2.2K	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W
R308	1-249-417-11	CARBON	1K	5%	1/4W
R315	1-247-839-11	CARBON	2.2K	5%	1/4W
R316	1-249-417-11	CARBON	1K	5%	1/4W
R317	1-247-839-11	CARBON	2.2K	5%	1/4W
R318	1-249-417-11	CARBON	1K	5%	1/4W
R319	1-247-839-11	CARBON	2.2K	5%	1/4W
R320	1-249-417-11	CARBON	1K	5%	1/4W
R321	1-247-863-11	CARBON	22K	5%	1/4W
R322	1-247-843-11	CARBON	3.3K	5%	1/4W
R324	1-247-717-11	CARBON	2.2K	5%	1/4W
R325	1-247-717-11	CARBON	2.2K	5%	1/4W
R329	1-247-855-11	CARBON	10K	5%	1/4W
R330	1-247-855-11	CARBON	10K	5%	1/4W
R331	1-247-903-00	CARBON	1M	5%	1/4W
R332	1-247-903-00	CARBON	1M	5%	1/4W
R334	1-247-855-11	CARBON	10K	5%	1/4W
R335	1-249-413-11	CARBON	470	5%	1/4W
R336	1-247-883-00	CARBON	150K	5%	1/4W
R337	1-247-883-00	CARBON	150K	5%	1/4W
R338	1-247-876-11	CARBON	75K	5%	1/4W
R339	1-247-871-11	CARBON	47K	5%	1/4W
R340	1-247-876-11	CARBON	75K	5%	1/4W
R341	1-247-871-11	CARBON	47K	5%	1/4W
R342	1-247-879-11	CARBON	100K	5%	1/4W
R343	1-247-879-11	CARBON	100K	5%	1/4W
R344	1-249-403-11	CARBON	68	5%	1/4W
R345	1-247-903-00	CARBON	1M	5%	1/4W
R346	1-247-903-00	CARBON	1M	5%	1/4W
R347	1-247-847-11	CARBON	4.7K	5%	1/4W
R348	1-247-847-11	CARBON	4.7K	5%	1/4W
R349	1-247-839-11	CARBON	2.2K	5%	1/4W
R350	1-247-839-11	CARBON	2.2K	5%	1/4W
R355	1-247-867-11	CARBON	33K	5%	1/4W
R356	1-247-867-11	CARBON	33K	5%	1/4W
R357	1-247-901-11	CARBON	820K	5%	1/4W
R358	1-247-879-11	CARBON	100K	5%	1/4W
R362	1-247-704-11	CARBON	220	5%	1/4W
R363	1-247-879-11	CARBON	100K	5%	1/4W
R365	1-249-417-11	CARBON	1K	5%	1/4W
R367	1-247-847-11	CARBON	4.7K	5%	1/4W
R369	1-249-434-11	CARBON	27K	5%	1/4W
R370	1-249-434-11	CARBON	27K	5%	1/4W
R373	1-247-847-11	CARBON	4.7K	5%	1/4W
R375	1-247-891-00	CARBON	330K	5%	1/4W
R376	1-247-891-00	CARBON	330K	5%	1/4W
R379	1-247-839-11	CARBON	2.2K	5%	1/4W
R380	1-247-839-11	CARBON	2.2K	5%	1/4W
R381	1-249-417-11	CARBON	1K	5%	1/4W
R382	1-249-417-11	CARBON	1K	5%	1/4W
R387	1-247-879-11	CARBON	100K	5%	1/4W
R388	1-247-879-11	CARBON	100K	5%	1/4W
R389	1-249-427-11	CARBON	6.8K	5%	1/4W
R390	1-249-427-11	CARBON	6.8K	5%	1/4W
R391	1-247-855-11	CARBON	10K	5%	1/4W
R392	1-247-855-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remark	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-417-11	CARBON	1K	5%	1/4W	
R397	1-249-417-11	CARBON	1K	5%	1/4W	
R398	1-247-713-11	CARBON	1K	5%	1/4W	
R399	1-247-717-11	CARBON	2.2K	5%	1/4W	
R401	1-249-405-11	CARBON	100	5%	1/4W	
R402	1-249-405-11	CARBON	100	5%	1/4W	
R403	1-247-827-11	CARBON	680	5%	1/4W	
⚠R405	1-215-863-11	METAL OXIDE	100	5%	1W	F
R406	1-247-717-11	CARBON	2.2K	5%	1/4W	
R408	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R409	1-215-865-11	METAL OXIDE	220	5%	1W	F
R410	1-247-717-11	CARBON	2.2K	5%	1/4W	
⚠R412	1-215-886-11	METAL OXIDE	100	5%	2W	F
R416	1-247-895-00	CARBON	470K	5%	1/4W	
R424	1-249-417-11	CARBON	1K	5%	1/4W	
R425	1-249-417-11	CARBON	1K	5%	1/4W	
R426	1-247-721-11	CARBON	4.7K	5%	1/4W	
R427	1-247-855-11	CARBON	10K	5%	1/4W	
R440	1-247-708-11	CARBON	470	5%	1/4W	
R441	1-247-708-11	CARBON	470	5%	1/4W	
R442	1-249-422-11	CARBON	2.7K	5%	1/4W	
R443	1-249-422-11	CARBON	2.7K	5%	1/4W	
R444	1-247-688-11	CARBON	10	5%	1/4W	
R470	1-247-879-11	CARBON	100K	5%	1/4W	
R471	1-247-903-00	CARBON	1M	5%	1/4W	
R472	1-249-417-11	CARBON	1K	5%	1/4W	
R473	1-247-863-11	CARBON	22K	5%	1/4W	
R474	1-247-863-11	CARBON	22K	5%	1/4W	
R476	1-247-889-00	CARBON	270K	5%	1/4W	
R122A	1-249-427-11	CARBON	6.8K	5%	1/4W	
R205A	1-249-409-11	CARBON	220	5%	1/4W	
R206A	1-249-409-11	CARBON	220	5%	1/4W	
R231A	1-247-843-11	CARBON	3.3K	5%	1/4W	
R232A	1-247-843-11	CARBON	3.3K	5%	1/4W	
R240A	1-247-855-11	CARBON	10K	5%	1/4W	
R300A	1-247-903-00	CARBON	1M	5%	1/4W	
R300B	1-247-903-00	CARBON	1M	5%	1/4W	
R301A	1-247-847-11	CARBON	4.7K	5%	1/4W	
R301B	1-247-847-11	CARBON	4.7K	5%	1/4W	
R302A	1-249-417-11	CARBON	1K	5%	1/4W	
R302B	1-249-417-11	CARBON	1K	5%	1/4W	
R304A	1-249-430-11	CARBON	12K	5%	1/4W	
R309A	1-249-430-11	CARBON	12K	5%	1/4W	
R3100	1-247-717-11	CARBON	2.2K	5%	1/4W	
R3101	1-247-717-11	CARBON	2.2K	5%	1/4W	
R3102	1-247-891-00	CARBON	330K	5%	1/4W	
R3103	1-249-417-11	CARBON	1K	5%	1/4W	
R3104	1-247-879-11	CARBON	100K	5%	1/4W	
R3105	1-249-427-11	CARBON	6.8K	5%	1/4W	
R3106	1-247-855-11	CARBON	10K	5%	1/4W	
R3108	1-249-417-11	CARBON	1K	5%	1/4W	
R3109	1-249-417-11	CARBON	1K	5%	1/4W	
R310A	1-247-839-11	CARBON	2.2K	5%	1/4W	
R3110	1-247-879-11	CARBON	100K	5%	1/4W	
R3111	1-247-879-11	CARBON	100K	5%	1/4W	
R3112	1-249-427-11	CARBON	6.8K	5%	1/4W	
R3113	1-249-427-11	CARBON	6.8K	5%	1/4W	
R3114	1-247-855-11	CARBON	10K	5%	1/4W	
R3115	1-247-855-11	CARBON	10K	5%	1/4W	
R3118	1-249-417-11	CARBON	1K	5%	1/4W	
R3119	1-249-417-11	CARBON	1K	5%	1/4W	
R3120	1-249-417-11	CARBON	1K	5%	1/4W	
R3121	1-247-871-11	CARBON	47K	5%	1/4W	
R3122	1-247-839-11	CARBON	2.2K	5%	1/4W	
R3123	1-247-855-11	CARBON	10K	5%	1/4W	
R3124	1-249-417-11	CARBON	1K	5%	1/4W	
R3125	1-247-879-11	CARBON	100K	5%	1/4W	
R3128	1-247-855-11	CARBON	10K	5%	1/4W	
R3129	1-247-855-11	CARBON	10K	5%	1/4W	
R3136	1-247-879-11	CARBON	100K	5%	1/4W	
R3137	1-247-855-11	CARBON	10K	5%	1/4W	
R3138	1-247-839-11	CARBON	2.2K	5%	1/4W	
R3139	1-247-871-11	CARBON	47K	5%	1/4W	
R3140	1-247-863-11	CARBON	22K	5%	1/4W	
R3141	1-247-855-11	CARBON	10K	5%	1/4W	
R329A	1-247-855-11	CARBON	10K	5%	1/4W	
R330A	1-247-855-11	CARBON	10K	5%	1/4W	
R331A	1-247-847-11	CARBON	4.7K	5%	1/4W	
R334A	1-247-855-11	CARBON	10K	5%	1/4W	
R357A	1-247-883-00	CARBON	150K	5%	1/4W	
R358A	1-247-835-11	CARBON	1.5K	5%	1/4W	
R363A	1-247-835-11	CARBON	1.5K	5%	1/4W	
R376A	1-247-883-00	CARBON	150K	5%	1/4W	
R381A	1-247-839-11	CARBON	2.2K	5%	1/4W	
R382A	1-247-855-11	CARBON	10K	5%	1/4W	
R399A	1-247-717-11	CARBON	2.2K	5%	1/4W	
⚠R403A	1-215-857-11	METAL OXIDE	10	5%	1W	F
⚠R412A	1-215-892-11	METAL OXIDE	1K	5%	2W	F
⚠R412B	1-216-458-11	METAL OXIDE	1.8K	5%	2W	F
R427A	1-247-855-11	CARBON	10K	5%	1/4W	
R476A	1-247-835-11	CARBON	1.5K	5%	1/4W	
R3121A	1-247-871-11	CARBON	47K	5%	1/4W	
		< RF BLOCK >				
RF101	1-476-103-11	RF BLOCK, AM				
		< RELAY >				
RL401	1-755-170-11	RELAY (12V)				
RL402	1-755-170-11	RELAY (12V)				
RL403	1-755-170-11	RELAY (12V)				
		< VARIABLE RESISTOR >				
SFR101	1-241-765-11	RES, ADJ, CARBON 22K				
		< TRANSFORMER >				
T102	1-429-554-11	TRANSFORMER, AM IFT				
		< VIBRATOR >				
X101	1-579-585-11	VIBRATOR, CRYSTAL (7.2MHz)				

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MOTOR | PANEL

Ref. No.	Part No.	Description			Remark
	1-674-792-11	MOTOR BOARD			
		*************			
		< CAPACITOR >			
C01	1-124-259-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
* CN06	1-568-824-11	SOCKET, CONNECTOR 5P			

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Ref. No.	Part No.	Description			Remark
	A-4424-891-A	PANEL BOARD, COMPLETE			
		**********************			
		(including SENSOR BOARD)			
		< CAPACITOR >			
C601	1-126-916-11	ELECT	1000uF	20%	6.3V
C602	1-161-494-00	CERAMIC	0.022uF		25V
C603	1-164-159-11	CERAMIC	0.1uF		50V
C604	1-119-774-11	ELECT	100uF	20%	16V
C605	1-124-589-11	ELECT	47uF	20%	16V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C608	1-124-254-00	ELECT	0.68uF	20%	50V
C609	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-126-964-11	ELECT	10uF	20%	50V
C611	1-161-494-00	CERAMIC	0.022uF		25V
C612	1-126-160-11	ELECT	1uF	20%	50V
C613	1-102-960-00	CERAMIC	24PF	5%	50V
C614	1-102-960-00	CERAMIC	24PF	5%	50V
C615	1-126-964-11	ELECT	10uF	20%	50V
C616	1-164-206-41	CERAMIC	0.047uF	99%	50V
C617	1-162-286-31	CERAMIC	220PF	10%	50V
C618	1-162-286-31	CERAMIC	220PF	10%	50V
C621	1-126-934-11	ELECT	220uF	20%	16V
C622	1-162-286-31	CERAMIC	220PF	10%	50V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C624	1-162-286-31	CERAMIC	220PF	10%	50V
C625	1-162-286-31	CERAMIC	220PF	10%	50V
C626	1-162-286-31	CERAMIC	220PF	10%	50V
C629	1-126-934-11	ELECT	220uF	20%	16V
C630	1-162-286-31	CERAMIC	220PF	10%	50V
C632	1-124-464-11	ELECT	0.22uF	20%	50V
C633	1-130-489-11	MYLAR	0.033uF	5%	50V
C634	1-126-957-11	ELECT	0.22uF	20%	50V
C635	1-130-475-00	MYLAR	0.0022uF	5%	50V
C636	1-126-957-11	ELECT	0.22uF	20%	50V
C637	1-126-957-11	ELECT	0.22uF	20%	50V
C638	1-130-483-00	MYLAR	0.01uF	5%	50V
C639	1-126-959-11	ELECT	0.47uF	20%	50V
C640	1-126-957-11	ELECT	0.22uF	20%	50V
C641	1-136-161-00	MYLAR	0.047uF	10%	50V
C642	1-126-957-11	ELECT	0.22uF	20%	50V
C643	1-162-293-31	CERAMIC	820PF	10%	50V
C644	1-126-964-11	ELECT	10uF	20%	50V
C646	1-124-259-11	ELECT	4.7uF	20%	50V
C901	1-126-964-11	ELECT	10uF	20%	50V
C902	1-161-494-00	CERAMIC	0.022uF		25V
C903	1-162-294-31	CERAMIC	0.001uF	10%	50V
C904	1-162-294-31	CERAMIC	0.001uF	10%	50V
C905	1-162-286-31	CERAMIC	220PF	10%	50V
C906	1-162-286-31	CERAMIC	220PF	10%	50V
C629A	1-104-664-11	ELECT	47uF	20%	16V
C630A	1-164-159-11	CERAMIC	0.1uF		50V
C699A	1-162-286-31	CERAMIC	220PF	10%	50V
		< CONNECTOR >			
CN101	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P			
CN603	1-784-738-21	CONNECTOR, FFC 16P			
CN605	1-784-744-21	CONNECTOR, FFC 22P			
		< DIODE >			
D601	8-719-200-02	DIODE	1N4002		
D602	8-719-200-02	DIODE	1N4002		
D603	8-719-911-19	DIODE	1SS133T-72		
D604	8-719-911-19	DIODE	1SS133T-72		
D612	8-719-911-19	DIODE	1SS133T-72		
D613	8-719-911-19	DIODE	1SS133T-72		
D615	8-719-911-19	DIODE	1SS133T-72		
D616	8-719-911-19	DIODE	1SS133T-72		
D618	8-719-911-19	DIODE	1SS133T-72		
D619	8-719-911-19	DIODE	1SS133T-72		
D620	8-719-911-19	DIODE	1SS133T-72		
D621	8-719-911-19	DIODE	1SS133T-72		
D622	8-719-911-19	DIODE	1SS133T-72		
D623	8-719-911-19	DIODE	1SS133T-72		
D624	8-719-911-19	DIODE	1SS133T-72		
D625	8-719-911-19	DIODE	1SS133T-72		
D626	8-719-911-19	DIODE	1SS133T-72		
D627	8-719-911-19	DIODE	1SS133T-72		
D628	8-719-911-19	DIODE	1SS133T-72		
D629	8-719-911-19	DIODE	1SS133T-72		
D630	8-719-911-19	DIODE	1SS133T-72		
		< FLUORESCENT INDICATOR TUBE >			
FLD601	1-517-731-21	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC601	8-752-914-94	IC	CXP82040-114Q		
IC602	8-759-234-75	IC	TC74HC4094AP		
IC603	8-759-916-52	IC	TC74HC165AP		
IC901	8-759-275-23	IC	BU2092		
		< COIL >			
L601	1-410-517-11	INDUCTOR	47uH		
L602	1-410-517-11	INDUCTOR	47uH		
		< LED >			
LED901	8-719-921-01	LED	SEL1110R (TIMER)		
LED902	8-719-812-41	LED	SEL2110R (I/⏻)		
LED903	8-719-317-11	LED	SEL1710Y (CD)		
LED904	8-719-317-11	LED	SEL1710Y (TAPE A/B)		
LED905	8-719-317-11	LED	SEL1710Y (TUNER/BAND)		
LED906	8-719-317-11	LED	SEL1710Y (MD (VIDEO))		
LED907	8-719-317-11	LED	SEL1710Y (GROOVE)		
LED908	8-719-921-01	LED	SEL1110R (REC)		
LED909	8-719-317-11	LED	SEL1710Y (REC PAUSE)		

Ref. No.	Part No.	Description	Remark
LED910	8-719-317-11	LED SEL1710Y (DOLBY PRO LOGIC)	
LED911	8-719-317-11	LED SEL1710Y (DVD 5.1CH)	
LED912	8-719-317-11	LED SEL1710Y (DSP)	
LED913	8-719-312-70	LED SEL1410G (▷)	
LED914	8-719-312-70	LED SEL1410G (◁)	
		< TRANSISTOR >	
Q601	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q602	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q603	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q604	8-729-105-47	TRANSISTOR 2SC733	
Q608	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q609	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q610	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q611	8-729-993-43	TRANSISTOR 2SA934R	
Q612	8-729-993-43	TRANSISTOR 2SA934R	
Q613	8-729-993-43	TRANSISTOR 2SA934R	
Q901	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q902	8-729-194-57	TRANSISTOR 2SC945TP-P	
		< RESISTOR >	
R601	1-247-871-11	CARBON 47K 5%	1/4W
R602	1-249-417-11	CARBON 1K 5%	1/4W
R603	1-247-871-11	CARBON 47K 5%	1/4W
R604	1-249-417-11	CARBON 1K 5%	1/4W
R605	1-247-871-11	CARBON 47K 5%	1/4W
R606	1-249-417-11	CARBON 1K 5%	1/4W
R607	1-249-431-11	CARBON 15K 5%	1/4W
R608	1-247-871-11	CARBON 47K 5%	1/4W
R613	1-247-855-11	CARBON 10K 5%	1/4W
R615	1-247-855-11	CARBON 10K 5%	1/4W
R616	1-247-855-11	CARBON 10K 5%	1/4W
R617	1-247-855-11	CARBON 10K 5%	1/4W
R618	1-247-855-11	CARBON 10K 5%	1/4W
R619	1-247-855-11	CARBON 10K 5%	1/4W
R620	1-247-855-11	CARBON 10K 5%	1/4W
R621	1-247-855-11	CARBON 10K 5%	1/4W
R622	1-247-855-11	CARBON 10K 5%	1/4W
R623	1-247-855-11	CARBON 10K 5%	1/4W
R624	1-247-855-11	CARBON 10K 5%	1/4W
R625	1-247-855-11	CARBON 10K 5%	1/4W
R626	1-247-855-11	CARBON 10K 5%	1/4W
R630	1-249-417-11	CARBON 1K 5%	1/4W
R631	1-247-839-11	CARBON 2.2K 5%	1/4W
R632	1-247-839-11	CARBON 2.2K 5%	1/4W
R633	1-247-839-11	CARBON 2.2K 5%	1/4W
R634	1-247-847-11	CARBON 4.7K 5%	1/4W
R635	1-247-847-11	CARBON 4.7K 5%	1/4W
R636	1-247-847-11	CARBON 4.7K 5%	1/4W
R637	1-247-855-11	CARBON 10K 5%	1/4W
R638	1-249-417-11	CARBON 1K 5%	1/4W
R639	1-247-847-11	CARBON 4.7K 5%	1/4W
R640	1-247-855-11	CARBON 10K 5%	1/4W
R641	1-249-417-11	CARBON 1K 5%	1/4W
R642	1-247-847-11	CARBON 4.7K 5%	1/4W
R643	1-247-847-11	CARBON 4.7K 5%	1/4W
R644	1-247-847-11	CARBON 4.7K 5%	1/4W
R645	1-247-847-11	CARBON 4.7K 5%	1/4W
R646	1-247-847-11	CARBON 4.7K 5%	1/4W
R647	1-249-424-11	CARBON 3.9K 5%	1/4W
R648	1-249-417-11	CARBON 1K 5%	1/4W
R649	1-249-417-11	CARBON 1K 5%	1/4W
R650	1-247-863-11	CARBON 22K 5%	1/4W
R651	1-247-863-11	CARBON 22K 5%	1/4W
R652	1-247-847-11	CARBON 4.7K 5%	1/4W
R653	1-247-847-11	CARBON 4.7K 5%	1/4W
R654	1-247-847-11	CARBON 4.7K 5%	1/4W
R655	1-247-855-11	CARBON 10K 5%	1/4W
R656	1-249-417-11	CARBON 1K 5%	1/4W
R657	1-247-835-11	CARBON 1.5K 5%	1/4W
R658	1-247-887-00	CARBON 220K 5%	1/4W
R659	1-247-871-11	CARBON 47K 5%	1/4W
R660	1-247-895-00	CARBON 470K 5%	1/4W
R661	1-247-871-11	CARBON 47K 5%	1/4W
R662	1-247-895-00	CARBON 470K 5%	1/4W
R664	1-247-871-11	CARBON 47K 5%	1/4W
R665	1-247-895-00	CARBON 470K 5%	1/4W
R666	1-247-835-11	CARBON 1.5K 5%	1/4W
R668	1-247-871-11	CARBON 47K 5%	1/4W
R669	1-247-895-00	CARBON 470K 5%	1/4W
R671	1-249-438-11	CARBON 56K 5%	1/4W
R672	1-247-895-00	CARBON 470K 5%	1/4W
R673	1-247-835-11	CARBON 1.5K 5%	1/4W
R674	1-247-835-11	CARBON 1.5K 5%	1/4W
R675	1-247-871-11	CARBON 47K 5%	1/4W
R676	1-247-835-11	CARBON 1.5K 5%	1/4W
R903	1-247-847-11	CARBON 4.7K 5%	1/4W
R904	1-247-847-11	CARBON 4.7K 5%	1/4W
R906	1-249-410-11	CARBON 270 5%	1/4W
R907	1-249-410-11	CARBON 270 5%	1/4W
R908	1-249-410-11	CARBON 270 5%	1/4W
R909	1-249-410-11	CARBON 270 5%	1/4W
R910	1-249-410-11	CARBON 270 5%	1/4W
R911	1-249-417-11	CARBON 1K 5%	1/4W
R912	1-249-413-11	CARBON 470 5%	1/4W
R915	1-247-855-11	CARBON 10K 5%	1/4W
R916	1-247-855-11	CARBON 10K 5%	1/4W
R917	1-249-410-11	CARBON 270 5%	1/4W
R918	1-249-410-11	CARBON 270 5%	1/4W
R919	1-249-410-11	CARBON 270 5%	1/4W
R920	1-249-410-11	CARBON 270 5%	1/4W
R921	1-249-410-11	CARBON 270 5%	1/4W
R922	1-247-827-11	CARBON 680 5%	1/4W
R923	1-249-416-11	CARBON 820 5%	1/4W
R924	1-249-418-11	CARBON 1.2K 5%	1/4W
R925	1-247-835-11	CARBON 1.5K 5%	1/4W
R926	1-247-839-11	CARBON 2.2K 5%	1/4W
R927	1-247-843-11	CARBON 3.3K 5%	1/4W
R928	1-247-847-11	CARBON 4.7K 5%	1/4W
R929	1-249-428-11	CARBON 8.2K 5%	1/4W
R930	1-249-431-11	CARBON 15K 5%	1/4W
R931	1-249-434-11	CARBON 27K 5%	1/4W
R932	1-247-827-11	CARBON 680 5%	1/4W
R933	1-249-416-11	CARBON 820 5%	1/4W
R934	1-249-418-11	CARBON 1.2K 5%	1/4W

PANEL | PHOTO SOCKET | SW A | SW B | SW C | SW D

Ref. No.	Part No.	Description			Remark
R935	1-247-835-11	CARBON	1.5K	5%	1/4W
R936	1-247-839-11	CARBON	2.2K	5%	1/4W
R937	1-247-843-11	CARBON	3.3K	5%	1/4W
R938	1-247-847-11	CARBON	4.7K	5%	1/4W
R939	1-249-428-11	CARBON	8.2K	5%	1/4W
R940	1-249-431-11	CARBON	15K	5%	1/4W
R942	1-247-827-11	CARBON	680	5%	1/4W
R943	1-249-416-11	CARBON	820	5%	1/4W
R944	1-249-418-11	CARBON	1.2K	5%	1/4W
R945	1-247-835-11	CARBON	1.5K	5%	1/4W
R946	1-247-839-11	CARBON	2.2K	5%	1/4W
R947	1-247-843-11	CARBON	3.3K	5%	1/4W
R948	1-247-847-11	CARBON	4.7K	5%	1/4W
R949	1-249-428-11	CARBON	8.2K	5%	1/4W
R950	1-249-434-11	CARBON	27K	5%	1/4W
R955	1-249-408-11	CARBON	180	5%	1/4W
R956	1-249-408-11	CARBON	180	5%	1/4W
R606A	1-247-871-11	CARBON	47K	5%	1/4W
R618A	1-247-879-11	CARBON	100K	5%	1/4W
		< IC >			
RM601	8-749-013-84	IC SPS-447-1 (REMOTE CONTROL RECEIVER)			
		< SWITCH >			
S902	1-572-647-11	SWITCH, KEY BOARD (▶▶I, +)			
S903	1-572-647-11	SWITCH, KEY BOARD (▷▷)			
S904	1-572-647-11	SWITCH, KEY BOARD (EDIT, TUNER MEMORY)			
S905	1-572-647-11	SWITCH, KEY BOARD (REPEAT, STEREO/MONO)			
S906	1-572-647-11	SWITCH, KEY BOARD (PLAY MODE, DIRECTION) (EXCEPT AEP, UK)			
S906	1-572-647-11	SWITCH, KEY BOARD (PLAY MODE, PTY/DIRECTION) (AEP, UK)			
S907	1-572-647-11	SWITCH, KEY BOARD (❚❚)			
S908	1-572-647-11	SWITCH, KEY BOARD (◁▷)			
S909	1-572-647-11	SWITCH, KEY BOARD (■)			
S910	1-572-647-11	SWITCH, KEY BOARD (–, I◀◀)			
S911	1-572-647-11	SWITCH, KEY BOARD (GROOVE)			
S912	1-572-647-11	SWITCH, KEY BOARD (FILE SELECT)			
S913	1-572-647-11	SWITCH, KEY BOARD (ENTER)			
S914	1-572-647-11	SWITCH, KEY BOARD (SPECTRUM)			
S915	1-572-647-11	SWITCH, KEY BOARD (DISPLAY)			
S917	1-572-647-11	SWITCH, KEY BOARD (I/⏻)			
S918	1-572-647-11	SWITCH, KEY BOARD (⏏ OPEN/CLOSE)			
S919	1-572-647-11	SWITCH, KEY BOARD (DISC 3)			
S920	1-572-647-11	SWITCH, KEY BOARD (DISC 2)			
S921	1-572-647-11	SWITCH, KEY BOARD (DISC 1)			
S922	1-572-647-11	SWITCH, KEY BOARD (DISC-SKIP EX-CHANGE)			
S923	1-572-647-11	SWITCH, KEY BOARD (TUNER/BAND)			
S924	1-572-647-11	SWITCH, KEY BOARD (CD)			
S925	1-572-647-11	SWITCH, KEY BOARD (TAPE A/B)			
S926	1-572-647-11	SWITCH, KEY BOARD (MD (VIDEO))			
S927	1-572-647-11	SWITCH, KEY BOARD (◁◁)			
S931	1-572-647-11	SWITCH, KEY BOARD (REC PAUSE)			
S932	1-572-647-11	SWITCH, KEY BOARD (REC)			
S933	1-572-647-11	SWITCH, KEY BOARD (CD SYNC)			
S934	1-572-647-11	SWITCH, KEY BOARD (DSP)			
S935	1-572-647-11	SWITCH, KEY BOARD (DVD 5.1CH)			
S936	1-572-647-11	SWITCH, KEY BOARD (DOLBY PRO LOGIC)			
		< VIARIABLE RESISTOR >			
SFR601	1-238-598-11	RES, ADJ, CARBON 2.2K			
		< ROTARY ENCODER >			
VR602	1-476-137-11	ENCODER, ROTARY (VOLUME)			
		< VIBRATOR >			
X601	1-567-925-11	VIBRATOR, CRYSTAL (10MHz)			

****

	A-4473-612-A	PHOTO SOCKET BOARD, COMPLETE ****************************		
		< CAPACITOR >		
C710A	1-164-159-11	CERAMIC	0.1uF	50V
		< CONNECTOR >		
* CN703	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		
		< IC >		
PH701	8-749-923-04	IC TOTX178A (CD DIGITAL OUT (OPTICAL))		

****

	1-674-788-11	SW A BOARD ***********
		< SWITCH >
S04	1-771-169-11	SWITCH (TURN TABLE OPERATION DETECT)

****

	1-674-789-11	SW B BOARD ***********
S03	1-771-169-11	SWITCH (TURN TABLE POSITION DETECT)

****

	1-674-790-11	SW C BOARD ***********
S02	1-571-300-31	SWITCH, ROTARY (OPEN/CLOSE DETECT)

****

	1-674-791-11	SW D BOARD ***********
S01	1-571-300-31	SWITCH, ROTARY (OPTICAL PICK-UP UP/DOWN SETECT)

****

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**************	
56	1-792-850-11	WIRE (FLAT TYPE) (16 CORE)	
69	1-769-273-11	WIRE (FLAT TYPE) (22 CORE)	
72	1-772-164-11	DECK, MECH (CWL-44-RR)	
⚠111	1-783-531-51	CORD, POWER (US, CND)	
251	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)	
255	1-775-133-11	WIRE (FLAT TYPE) (15 CORE)	
⚠305	1-772-651-11	OPTICAL PICK-UP ASSY	
M103	X-4948-765-1	MOTOR ASSY (DISC TABLE TURN)	
M104	X-4948-766-1	MOTOR ASSY (A) (DISC TRAY SLIDE)	
M505	1-763-410-11	FAN, DC	
⚠T001	1-435-714-11	TRANSFORMER, POWER (US, CND)	
**			
		**************	
		HARDWARE LIST	
		**************	
#1	7-685-246-19	SCREW +KTP 3X8 TYPE2 SLIT	
#2	7-685-648-14	SCREW +BVTP 3X12 TYPE2 N-S	
#3	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	
#4	7-682-904-11	SCREW +PWH 4X8	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#6	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)	
#8	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#9	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#10	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#11	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
#12	7-624-118-01	RING, RETAINING E-2.5	
#13	7-685-903-21	SCREW +PTPWH 3X8 (TYPE2)	
#14	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	
#15	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S	
#16	7-685-645-79	SCREW +BVTP 3X6 TYPE2 SLIT	
#17	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#18	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
#19	7-685-902-11	SCREW +PWH 2.6X6	
#20	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S	
#21	7-685-660-79	SCREW +PTPWH 4X10 TYPE 2	
#22	7-685-661-79	SCREW +BVTP 4X12 TYPE2 N-S	
#23	7-685-649-79	SCREW +BVTP 3X14 TYPE2 SLIT	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

HCD-BX6AV/DX6AV

9503 # 2030 11A

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
HCD-BX6AV
E Model
Australian Model
HCD-DX6AV

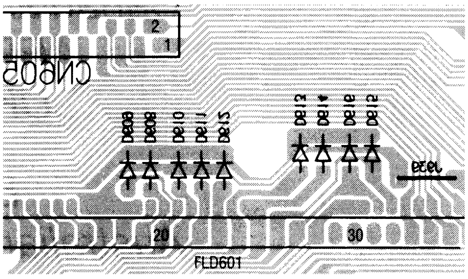
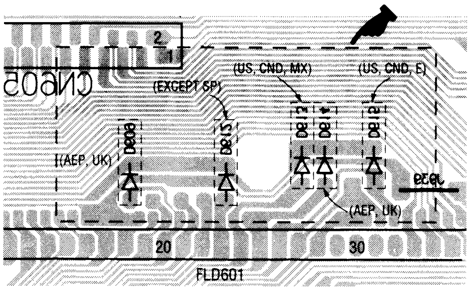
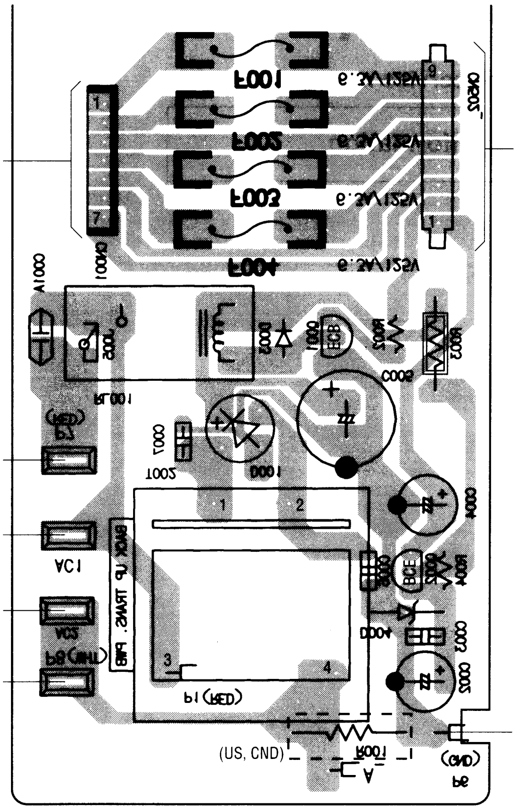
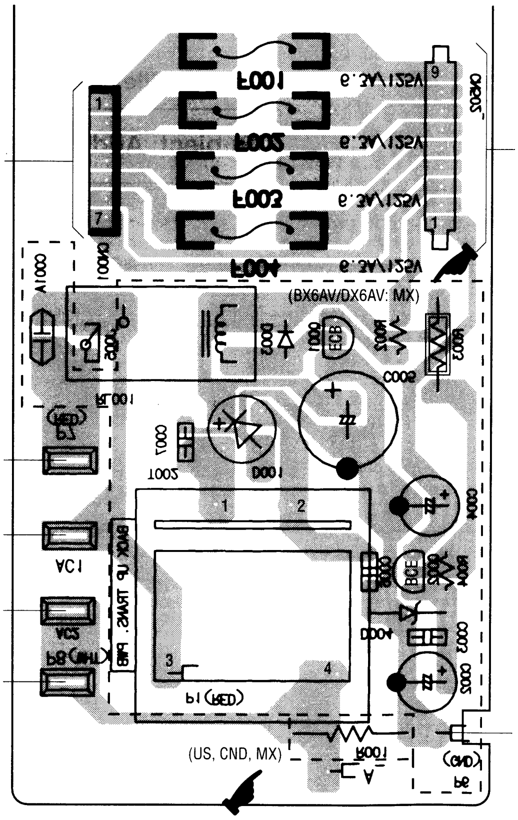
SUPPLEMENT-1

File this supplement with the service manual.

Subject: Addition and Change of Information

• PRINTED WIRING BOARD

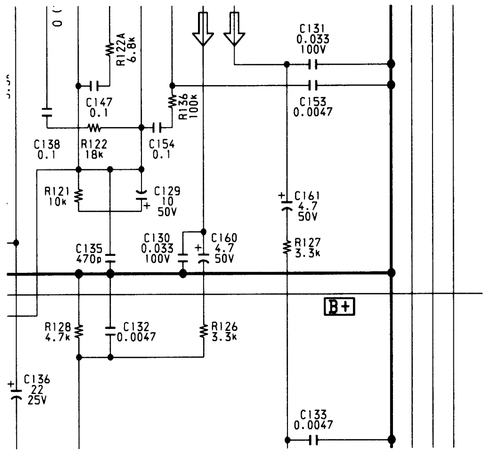
☛ : Indicates changed portion.

Page	Before Change	After Change
22	Location A – C, 5 – 8  CN605 2 1 D808 D809 D810 D811 D815 D812 D814 D816 D813 20 30 FLD601	 CN605 2 1 (US, CND, MX) (US, CND, E) (EXCEPT SP) (AEP, UK) D808 D815 D812 D814 D813 (AEP, UK) 20 30 FLD601
24	Location B – F, 10 – 13  F001 F002 F003 F004 6.3A/125V CN802 CN001 1 7 9 1 C001 D002 R003 ECB R002 C002 D001 P2 (RED) AC1 AC2 P8 (WHT) 1 2 3 4 D004 P1 (RED) (US, CND) R001 A (GND) P6	 F001 F002 F003 F004 6.3A/125V CN802 CN001 1 7 9 1 (BX6AV/DX6AV: MX) C001 D002 R003 ECB R002 C002 D001 P2 (RED) AC1 AC2 P8 (WHT) 1 2 3 4 D004 P1 (RED) (US, CND, MX) R001 A (GND) P6

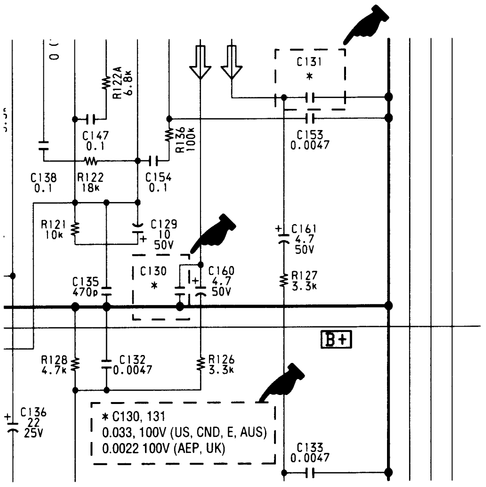
- Abbreviation
  CND : Canadian model MX : Mexican model SP : Singapore model

• SCHEMATIC DIAGRAM

☛ : Indicates changed portion.

<table>
<tr><th>Page</th><th>Before Change</th><th>After Change</th></tr>
<tr><td>18</td><td>Location E – G, 11 – 14


C131
0.033
100V
R122A
6.8k
C147
0.1
R136
100k
C153
0.0047
C138
0.1
R122
18k
C154
0.1
R121
10k
C129
10
50V
C161
4.7
50V
C135
470p
C130
0.033
100V
C160
4.7
50V
R127
3.3k
B+
R128
4.7k
C132
0.0047
R126
3.3k
C136
22
25V
C133
0.0047

</td><td>

C131
*
R122A
6.8k
C147
0.1
R136
100k
C153
0.0047
C138
0.1
R122
18k
C154
0.1
R121
10k
C129
10
50V
C161
4.7
50V
C135
470p
C130
*
C160
4.7
50V
R127
3.3k
B+
R128
4.7k
C132
0.0047
R126
3.3k
C136
22
25V
* C130, 131
0.033, 100V (US, CND, E, AUS)
0.0022 100V (AEP, UK)
C133
0.0047

</td></tr>
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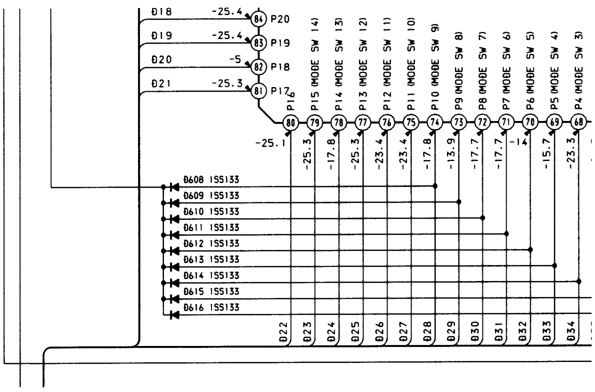
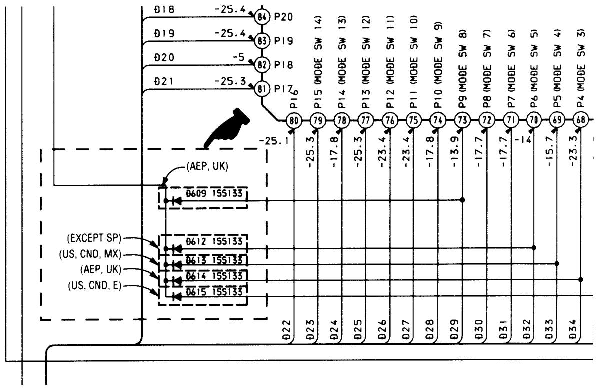


D18
D19
D20
D21
-25.4
-25.4
-5
-25.3
P20
P19
P18
P17
P16
P15 (MODE SW 14)
P14 (MODE SW 13)
P13 (MODE SW 12)
P12 (MODE SW 11)
P11 (MODE SW 10)
P10 (MODE SW 9)
P9 (MODE SW 8)
P8 (MODE SW 7)
P7 (MODE SW 6)
P6 (MODE SW 5)
P5 (MODE SW 4)
P4 (MODE SW 3)
-25.1
-25.3
-17.8
-25.3
-23.4
-23.4
-17.8
-13.9
-17.7
-17.7
-14
-15.7
-23.3
D608 1SS133
D609 1SS133
D610 1SS133
D611 1SS133
D612 1SS133
D613 1SS133
D614 1SS133
D615 1SS133
D616 1SS133
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
D32
D33
D34

</td><td>

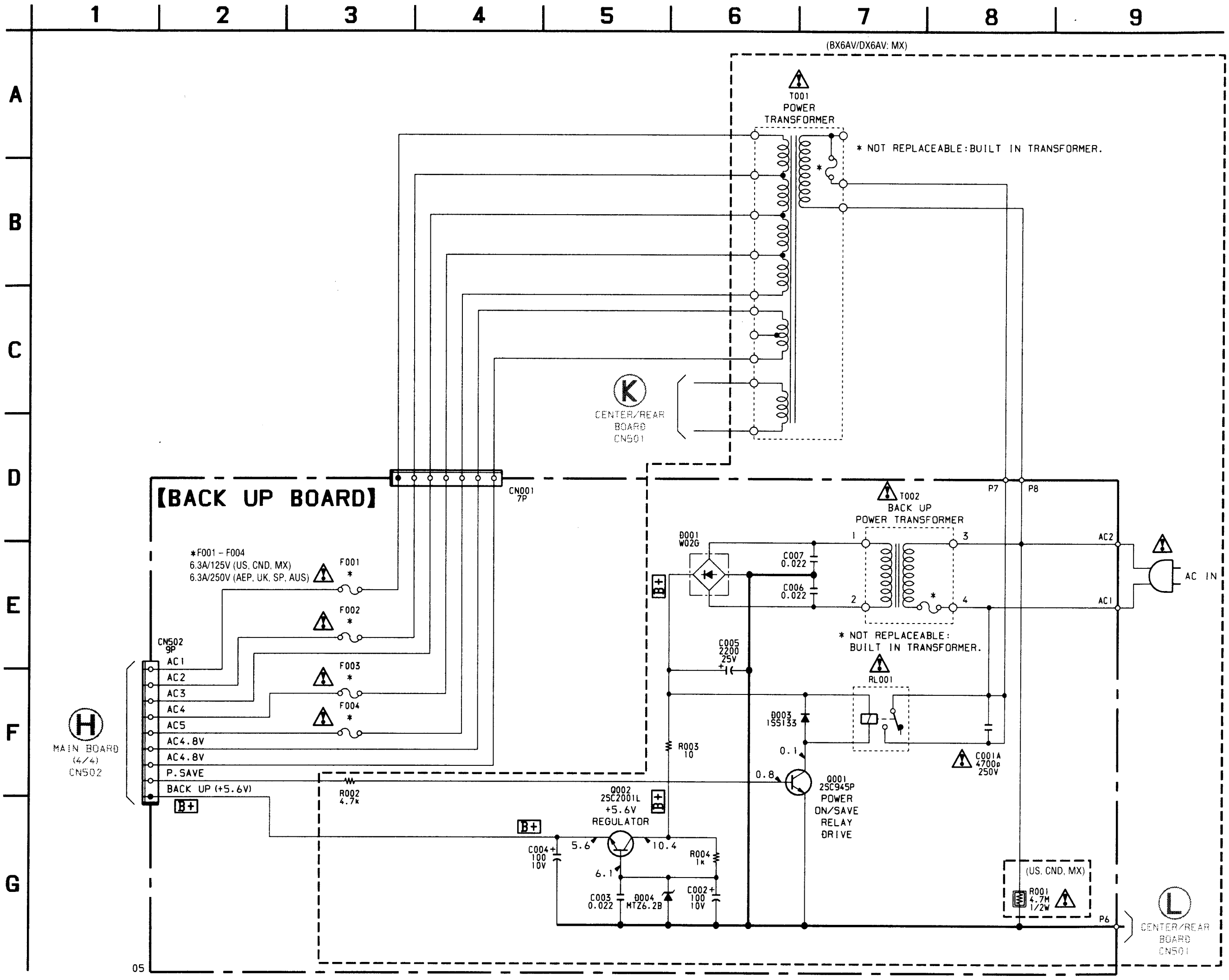
D18
D19
D20
D21
-25.4
-25.4
-5
-25.3
P20
P19
P18
P17
P16
P15 (MODE SW 14)
P14 (MODE SW 13)
P13 (MODE SW 12)
P12 (MODE SW 11)
P11 (MODE SW 10)
P10 (MODE SW 9)
P9 (MODE SW 8)
P8 (MODE SW 7)
P7 (MODE SW 6)
P6 (MODE SW 5)
P5 (MODE SW 4)
P4 (MODE SW 3)
-25.1
(AEP, UK)
D609 1SS133
(EXCEPT SP)
(US, CND, MX)
(AEP, UK)
(US, CND, E)
D612 1SS133
D613 1SS133
D614 1SS133
D615 1SS133
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
D32
D33
D34

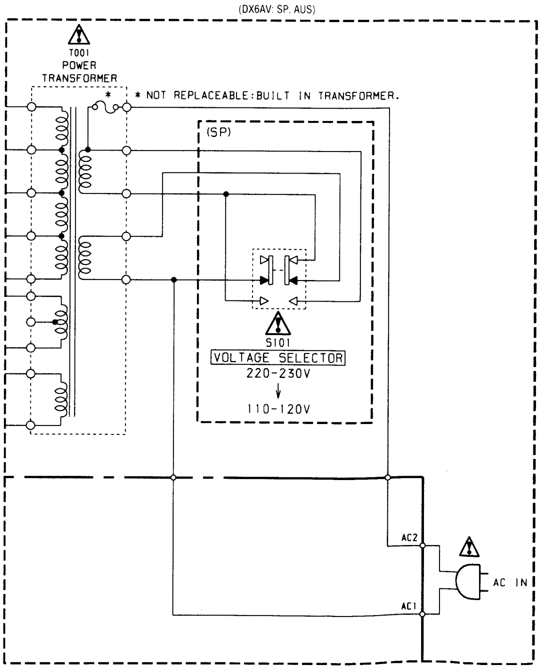
</td></tr>
</table>

- Abbreviation

AUS : Australian model	CND : Canadian model	MX : Mexican model	SP : Singapore model

SCHEMATIC DIAGRAM – POWER SUPPLY Section –


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
(BX6AV/DX6AV: MX)
T001
POWER
TRANSFORMER
* NOT REPLACEABLE:BUILT IN TRANSFORMER.
K
CENTER/REAR
BOARD
CN501
[BACK UP BOARD]
CN001
7P
*F001 - F004
6.3A/125V (US, CND, MX)
6.3A/250V (AEP, UK, SP, AUS)
F001
F002
F003
F004
CN502
9P
AC1
AC2
AC3
AC4
AC5
AC4.8V
AC4.8V
P.SAVE
BACK UP (+5.6V)
B+
H
MAIN BOARD
(4/4)
CN502
R002
4.7k
D001
W02G
C007
0.022
C006
0.022
C005
2200
25V
R003
10
T002
BACK UP
POWER TRANSFORMER
* NOT REPLACEABLE:
BUILT IN TRANSFORMER.
RL001
D003
1SS133
0.1
0.8
Q001
2SC945P
POWER
ON/SAVE
RELAY
DRIVE
Q002
2SC2001L
+5.6V
REGULATOR
5.6
10.4
6.1
C004
100
10V
R004
1k
C003
0.022
D004
MTZ6.2B
C002
100
10V
C001A
4700p
250V
P7
P8
AC2
AC1
AC IN
(US, CND, MX)
R001
4.7M
1/2W
P6
L
CENTER/REAR
BOARD
CN501
05


(DX6AV: SP, AUS)
T001
POWER
TRANSFORMER
* NOT REPLACEABLE:BUILT IN TRANSFORMER.
(SP)
S101
VOLTAGE SELECTOR
220-230V
110-120V
AC2
AC1
AC IN

Note on Schematic Diagram:

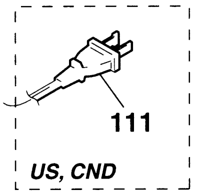
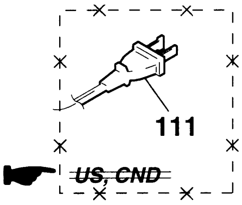
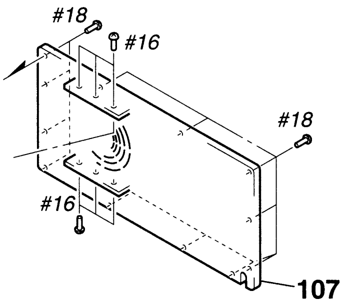
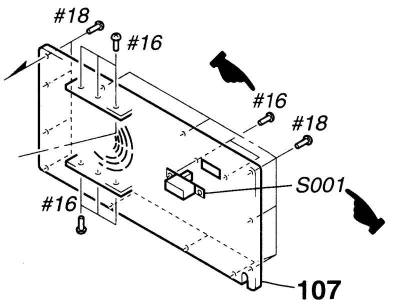
- All capacitors are in μF unless otherwise noted. U: μF, pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : nonflammable resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  MX : Mexican model
  SP : Singapore model

• EXPLODED VIEWS

☛ : Indicates changed portion.

Page	Before Change				After Change			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
33	3	4-230-489-01	DOOR, CD		3	4-230-489-01	DOOR, CD (BX6AV)	
					3	4-231-415-01	DOOR, CD (DX6AV)	
	9	A-4475-116-A	MAIN BOARD, COMPLETE (US, CND)		9	A-4475-116-A	MAIN BOARD, COMPLETE (US, CND, E, AUS)	
					9	A-4475-340-A	MAIN BOARD, COMPLETE (AEP, UK)	
34	68	A-4424-891-A	PANEL BOARD, COMPLETE		68	A-4424-891-A	PANEL BOARD, COMPLETE (US, CND, MX)	
					68	A-4424-963-A	PANEL BOARD, COMPLETE (AEP, UK)	
					68	A-4475-347-A	PANEL BOARD, COMPLETE (SP)	
					68	A-4475-349-A	PANEL BOARD, COMPLETE (AUS)	
					77	4-230-490-01	WINDOW, DISPLAY (US, CND, E, AUS)	
	77	4-230-490-01	WINDOW, DISPLAY		77	4-231-380-01	WINDOW, DISPLAY (AEP, UK)	
35	102	A-4475-115-A	BACK UP BOARD, COMPLETE (US, CND)		102	A-4475-115-A	BACK UP BOARD, COMPLETE (US, CND, MX)	
					102	A-4475-337-A	BACK UP BOARD, COMPLETE (AEP, UK)	
					102	A-4475-346-A	BACK UP BOARD, COMPLETE (SP, AUS)	
	103	4-230-504-01	CABINET, BOTTOM		103	4-230-504-01	CABINET, BOTTOM (US, CND, MX)	
					103	4-231-381-01	CABINET, BOTTOM (AEP, UK)	
					103	4-231-416-01	CABINET, BOTTOM (SP)	
					103	4-231-417-01	CABINET, BOTTOM (AUS)	
	107	4-230-505-01	COVER, REAR		107	4-230-505-01	COVER, REAR (US, CND, E, AUS)	
					107	4-231-382-01	COVER, REAR (AEP, UK)	
	108	A-4475-114-A	CENTER/REAR BOARD, COMPLETE (US, CND)		108	A-4475-114-A	CENTER/REAR BOARD, COMPLETE	
					⚠111	1-555-795-00	CORD, POWER (AEP, SP)	
					⚠111	1-558-943-41	CORD, POWER (MX)	
					⚠111	1-696-570-21	CORD, POWER (UK)	
					⚠111	1-696-845-11	CORD, POWER (AUS)	
					⚠S001	1-771-991-11	SLIDE, SW (VOLTAGE SELECTOR) (SP)	
	⚠T001	1-435-714-11	TRANSFORMER, POWER (US, CND)		⚠T001	1-435-714-11	TRANSFORMER, POWER (US, CND, MX)	
					⚠T001	1-435-715-11	TRANSFORMER, POWER (AEP, UK)	
					⚠T001	1-435-717-11	TRANSFORMER, POWER (SP, AUS)	
								
								

- Abbreviation

AUS : Australian model	CND : Canadian model	MX : Mexican model	SP : Singapore model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

BACK UP

• ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  AUS : Australian model   MX : Mexican model
  CND : Canadian model   SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. .   uPA. . : μPA. .
  uPB. . : μPB. .   uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
	A-4475-115-A	BACK UP BOARD, COMPLETE (US, CND, MX)	
	A-4475-337-A	BACK UP BOARD, COMPLETE (AEP, UK)	
	A-4475-346-A	BACK UP BOARD, COMPLETE (SP, AUS)	
		************************	
*	1-533-213-31	HOLDER, FUSE	
		< CAPACITOR >	
C002	1-104-665-11	ELECT 100uF 20% 10V	(BX6AV/DX6AV: MX)
C003	1-161-494-00	CERAMIC 0.022uF 25V	(BX6AV/DX6AV: MX)
C004	1-104-665-11	ELECT 100uF 20% 10V	(BX6AV/DX6AV: MX)
C005	1-126-943-11	ELECT 2200uF 20% 25V	(BX6AV/DX6AV: MX)
C006	1-161-494-00	CERAMIC 0.022uF 25V	(BX6AV/DX6AV: MX)
C007	1-161-494-00	CERAMIC 0.022uF 25V	(BX6AV/DX6AV: MX)
⚠C001A	1-113-924-11	CERAMIC 0.0047uF 20% 250V	(BX6AV/DX6AV: MX)
		< CONNECTOR >	
CN001	1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D001	8-719-067-67	DIODE W02G (BX6AV/DX6AV: MX)	
D003	8-719-911-19	DIODE 1SS133T-72 (BX6AV/DX6AV: MX)	
D004	8-719-010-44	DIODE UZ-6.2BS (BX6AV/DX6AV: MX)	
		< FUSE >	
⚠F001	1-532-506-31	FUSE (6.3A/250V) (AEP, UK, SP, AUS)	
⚠F001	1-576-193-11	FUSE (6.3A/125V) (US, CND, MX)	
⚠F002	1-532-506-31	FUSE (6.3A/250V) (AEP, UK, SP, AUS)	
⚠F002	1-576-193-11	FUSE (6.3A/125V) (US, CND, MX)	
⚠F003	1-532-506-31	FUSE (6.3A/250V) (AEP, UK, SP, AUS)	
⚠F003	1-576-193-11	FUSE (6.3A/125V) (US, CND, MX)	
⚠F004	1-532-506-31	FUSE (6.3A/250V) (AEP, UK, SP, AUS)	
⚠F004	1-576-193-11	FUSE (6.3A/125V) (US, CND, MX)	
		< TRANSISTOR >	
Q001	8-729-194-57	TRANSISTOR 2SC945TP-P	(BX6AV/DX6AV: MX)
Q002	8-729-142-46	TRANSISTOR 2SC2001-L	(BX6AV/DX6AV: MX)
		< RESISTOR >	
⚠R001	1-219-238-11	SOLID 4.7M 20% 1/2W F	(US, CND, MX)
R002	1-247-847-11	CARBON 4.7K 5% 1/4W	(BX6AV/DX6AV: MX)
R003	1-247-688-11	CARBON 10 5% 1/4W	(BX6AV/DX6AV: MX)
R004	1-249-417-11	CARBON 1K 5% 1/4W	(BX6AV/DX6AV: MX)
		< RELAY >	
⚠RL001	1-515-999-11	RELAY, POWER (BX6AV/DX6AV: MX)	
		< TRANSFORMER >	
⚠T002	1-435-612-11	TRANSFORMER, POWER (US, CND, MX)	
⚠T002	1-435-629-11	TRANSFORMER, POWER (AEP, UK)	

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Page	Before Change Ref. No.	Part No.	Description	Remark	After Change Ref. No.	Part No.	Description	Remark
39		A-4475-114-A	CENTER/REAR BOARD, COMPLETE	(US, CND)		A-4475-114-A	CENTER/REAR BOARD, COMPLETE	
40		——————			⚠F501	1-532-388-31	FUSE (2A/250V)	(AEP, UK, SP, AUS)
	⚠F501	1-576-104-11	FUSE (2A/250V)		⚠F501	1-576-104-11	FUSE (2A/250V)	(US, CND, MX)
43		A-4475-116-A	MAIN BOARD, COMPLETE	(US, CND)		A-4475-116-A	MAIN BOARD, COMPLETE	(US, CND, E, AUS)
		——————				A-4475-340-A	MAIN BOARD, COMPLETE	(AEP, UK)
44	C130	1-137-352-11	MYLAR 0.033uF 5% 100V		C130	1-137-352-11	MYLAR 0.033uF 5% 100V	(US, CND, E, AUS)
		——————			C130	1-137-389-11	MYLAR 0.0022uF 5% 100V	(AEP, UK)
	C131	1-137-352-11	MYLAR 0.033uF 5% 100V		C131	1-137-352-11	MYLAR 0.033uF 5% 100V	(US, CND, E, AUS)
		——————			C131	1-137-389-11	MYLAR 0.0022uF 5% 100V	(AEP, UK)
45		——————			C103A	1-102-518-11	CERAMIC 33PF 5% 50V	(AEP, UK)
		——————			C104A	1-102-518-11	CERAMIC 33PF 5% 50V	(AEP, UK)
		——————			C105A	1-104-664-11	ELECT 47uF 20% 10V	(AEP, UK)
		——————			C106A	1-104-664-11	ELECT 47uF 20% 10V	(AEP, UK)
		——————			C107A	1-126-962-11	ELECT 3.3uF 20% 50V	(AEP, UK)
46		——————			CF102	1-567-390-11	FILTER, CERAMIC (10.7MHz)	(AEP, UK)
	CF102	1-579-568-11	FILTER, CERAMIC (10.7MHz)		CF102	1-579-568-11	FILTER, CERAMIC (10.7MHz)	(US, CND, E, AUS)
		——————			* CN101A	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	(AEP, UK)
		——————			FE101	1-693-422-11	FRONT END	(AEP, UK)
	FE101	1-693-469-11	FRONT END		FE101	1-693-469-11	FRONT END	(US, CND, E, AUS)
		——————			IC101A	8-759-560-51	IC BU1924F	(AEP, UK)
	JK101	1-694-092-21	TERMINAL BOARD (ANTENNA)		JK101	1-694-092-21	TERMINAL BOARD (ANTENNA)	(US, CND, E, AUS)
		——————			JK101	1-694-126-11	TERMINAL BOARD (ANTENNA)	(AEP, UK)
47		——————			L101A	1-412-507-11	INDUCTOR 47uH	(AEP, UK)
49		——————			R101A	1-247-807-11	CARBON 100 5% 1/4W	(AEP, UK)
		——————			R103A	1-247-807-11	CARBON 100 5% 1/4W	(AEP, UK)
		——————			R104A	1-247-807-11	CARBON 100 5% 1/4W	(AEP, UK)
		——————			X101A	1-579-242-11	VIBRATOR, CRYSTAL (4.332MHz)	(AEP, UK)
50		A-4424-891-A	PANEL BOARD, COMPLETE			A-4424-891-A	PANEL BOARD, COMPLETE	(US, CND, MX)
		——————				A-4424-963-A	PANEL BOARD, COMPLETE	(AEP, UK)
		——————				A-4475-347-A	PANEL BOARD, COMPLETE	(SP)
		——————				A-4475-349-A	PANEL BOARD, COMPLETE	(AUS)
		——————			D609	8-719-911-19	DIODE 1SS133T-72	(AEP, UK)
	D612	8-719-911-19	DIODE 1SS133T-72		D612	8-719-911-19	DIODE 1SS133T-72	(EXCEPT SP)
	D613	8-719-911-19	DIODE 1SS133T-72	(US, CND)	D613	8-719-911-19	DIODE 1SS133T-72	(US, CND, MX)
		——————			D614	8-719-911-19	DIODE 1SS133T-72	(AEP, UK)
	D615	8-719-911-19	DIODE 1SS133T-72	(US, CND)	D615	8-719-911-19	DIODE 1SS133T-72	(US, CND, E)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Page	Before Change				After Change			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
53			MISCELLANEOUS **************				MISCELLANEOUS **************	
					⚠111	1-555-795-00	CORD, POWER (AEP, SP)	
					⚠111	1-558-943-41	CORD, POWER (MX)	
					⚠111	1-696-570-21	CORD, POWER (UK)	
					⚠111	1-696-845-11	CORD, POWER (AUS)	
					⚠S001	1-771-991-11	SLIDE, SW (VOLTAGE SELECTOR) (SP)	
	⚠T001	1-435-714-11	TRANSFORMER, POWER (US, CND)		⚠T001	1-435-714-11	TRANSFORMER, POWER (US, CND, MX)	
					⚠T001	1-435-715-11	TRANSFORMER, POWER (AEP, UK)	
					⚠T001	1-435-717-11	TRANSFORMER, POWER (SP, AUS)	

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Sony Corporation
Audio Entertainment Group

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